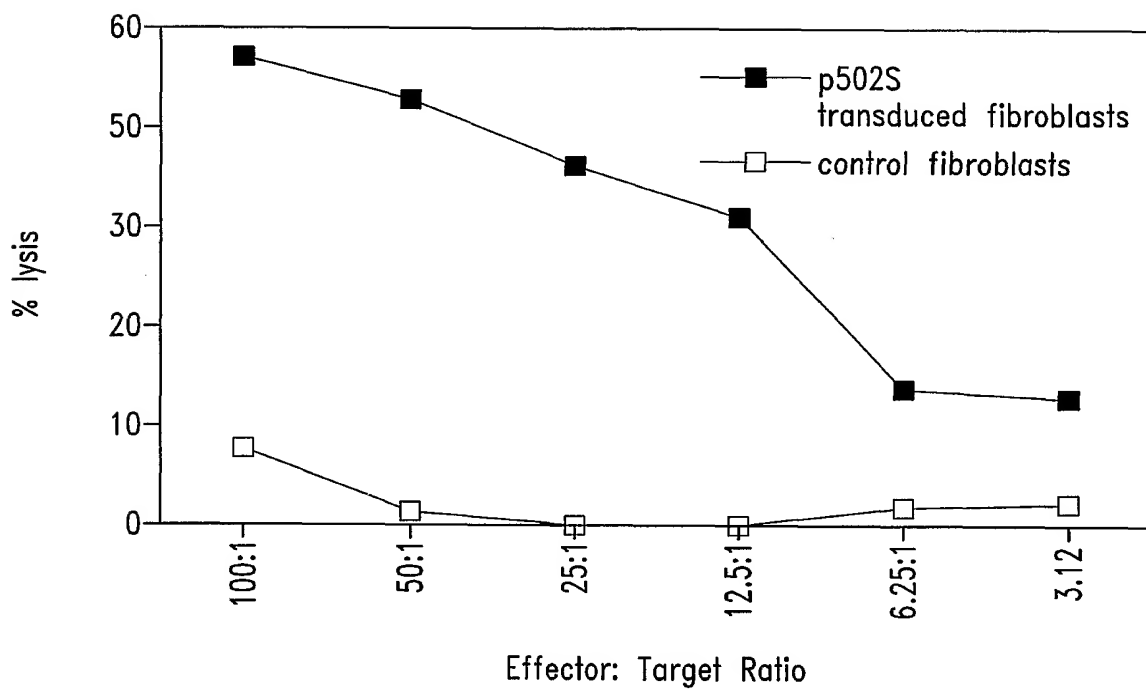
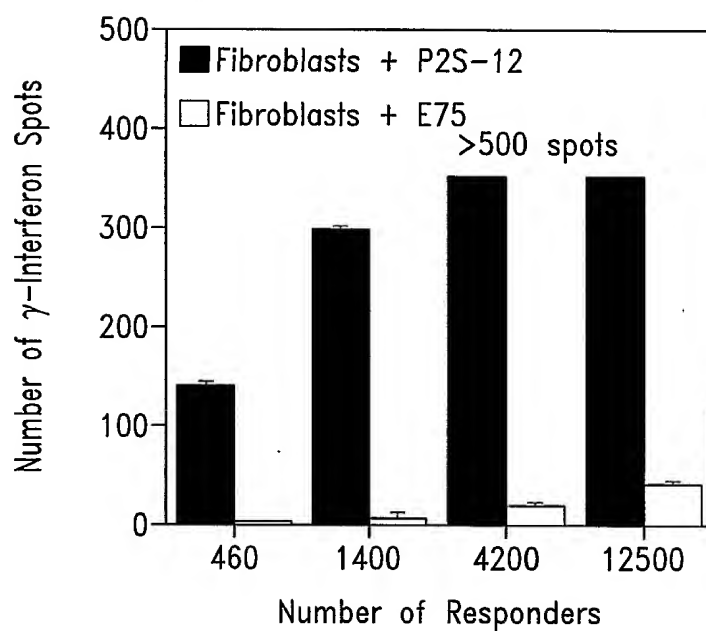
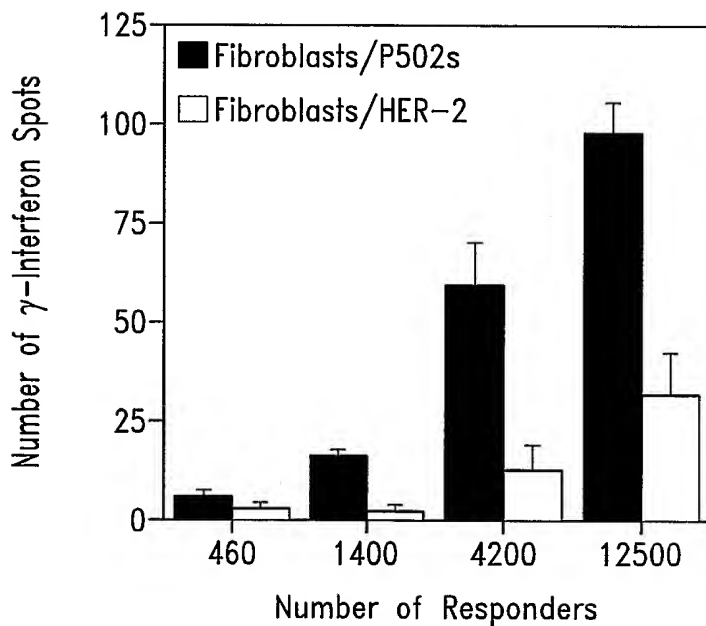


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*Fig. 1*

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*Fig. 2A**Fig. 2B*

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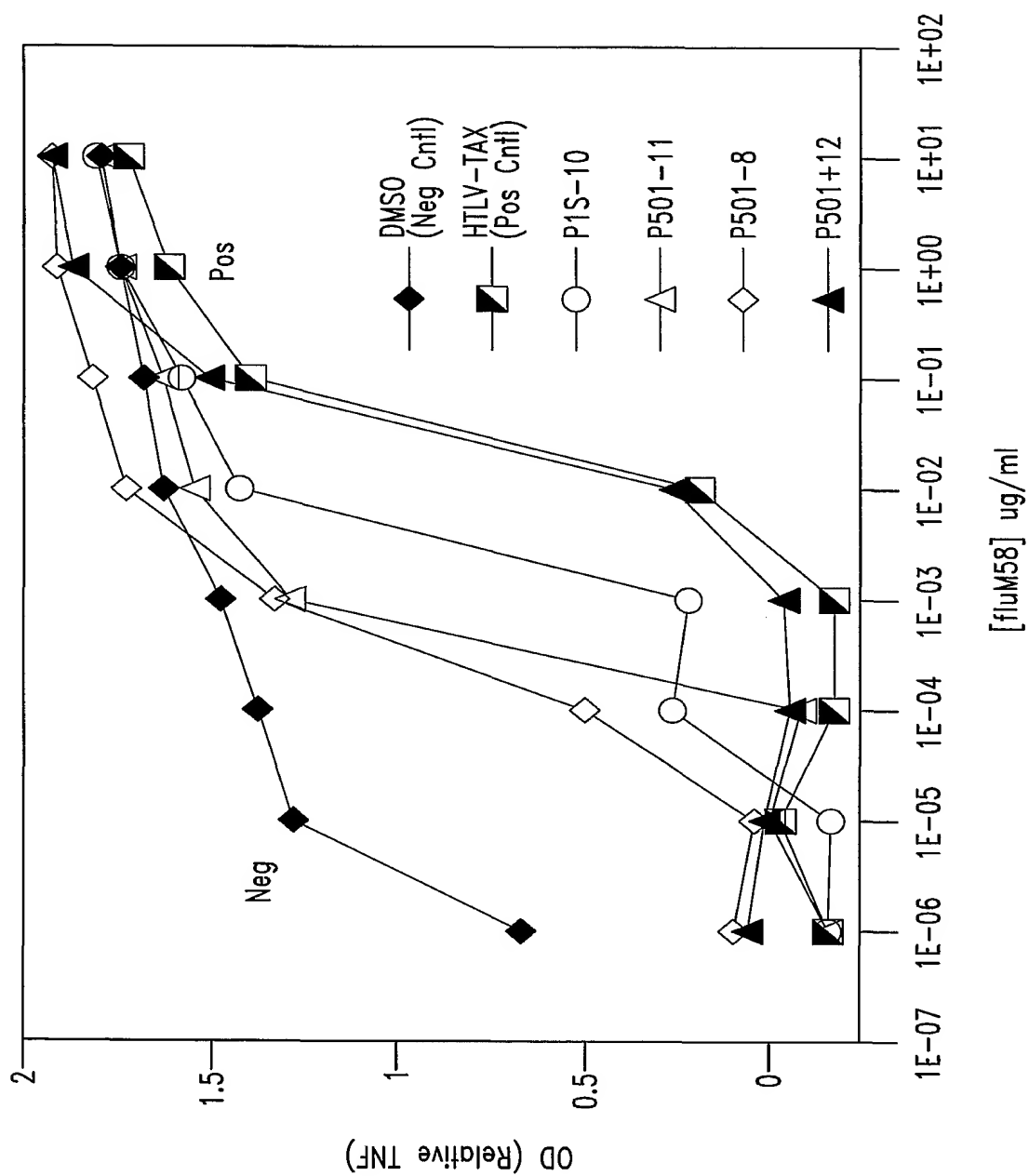
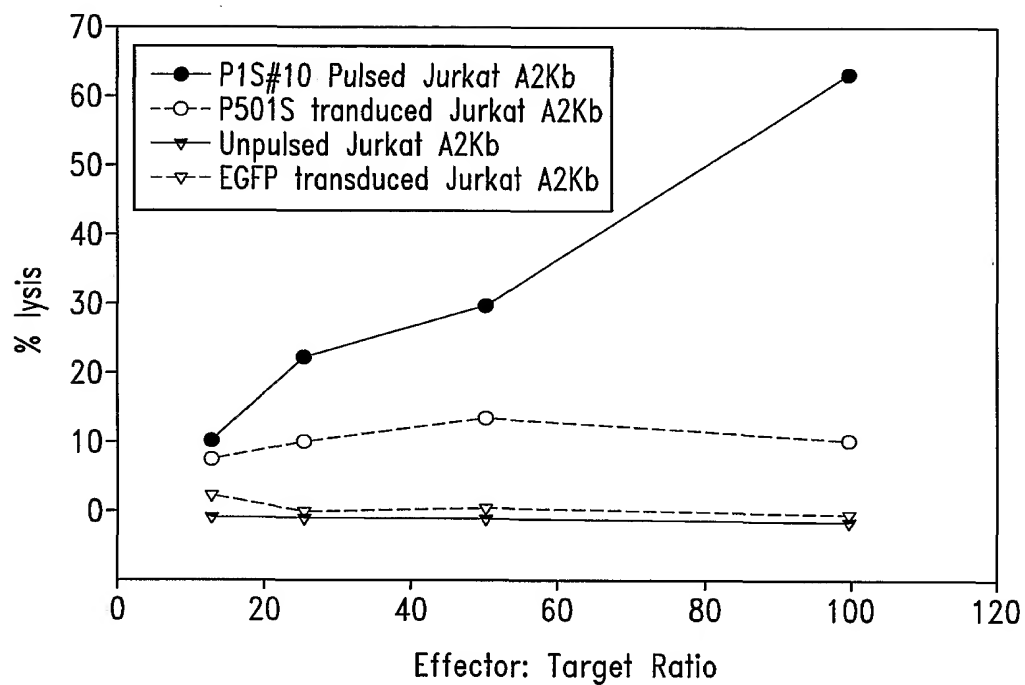
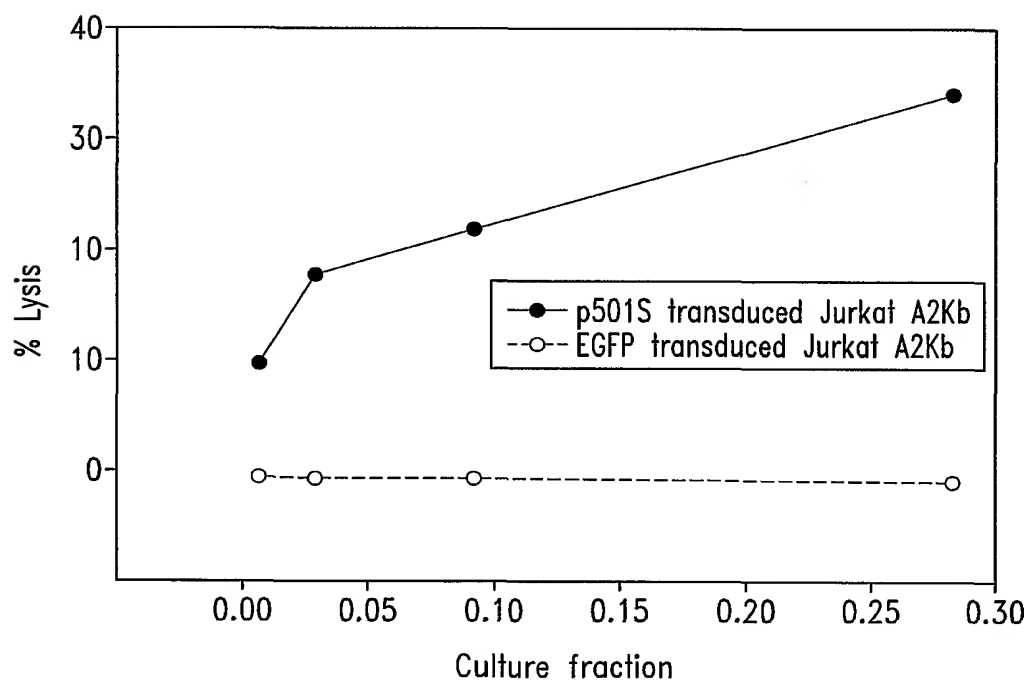
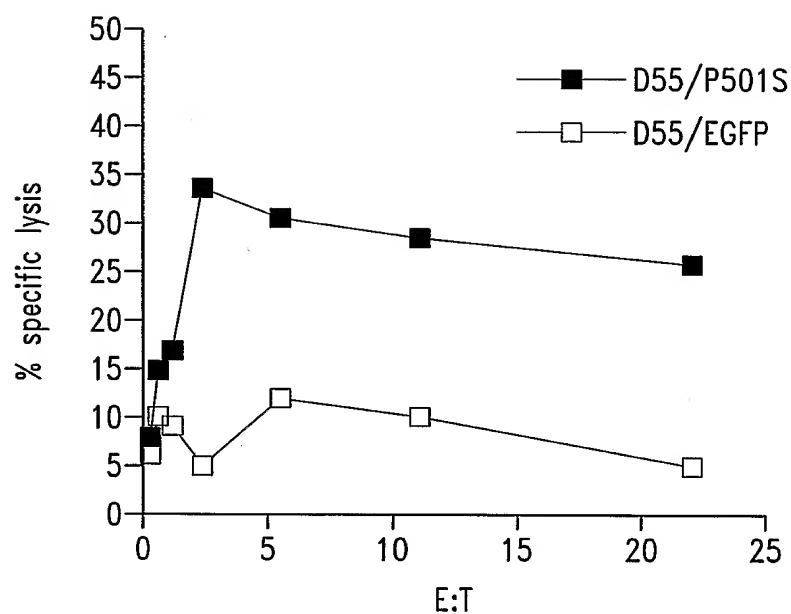
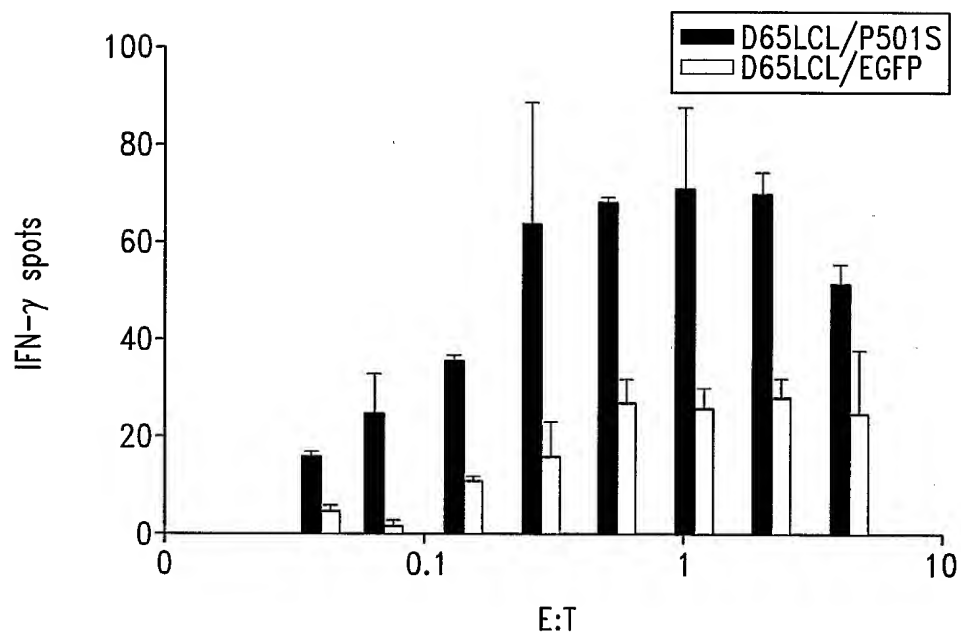


Fig. 3

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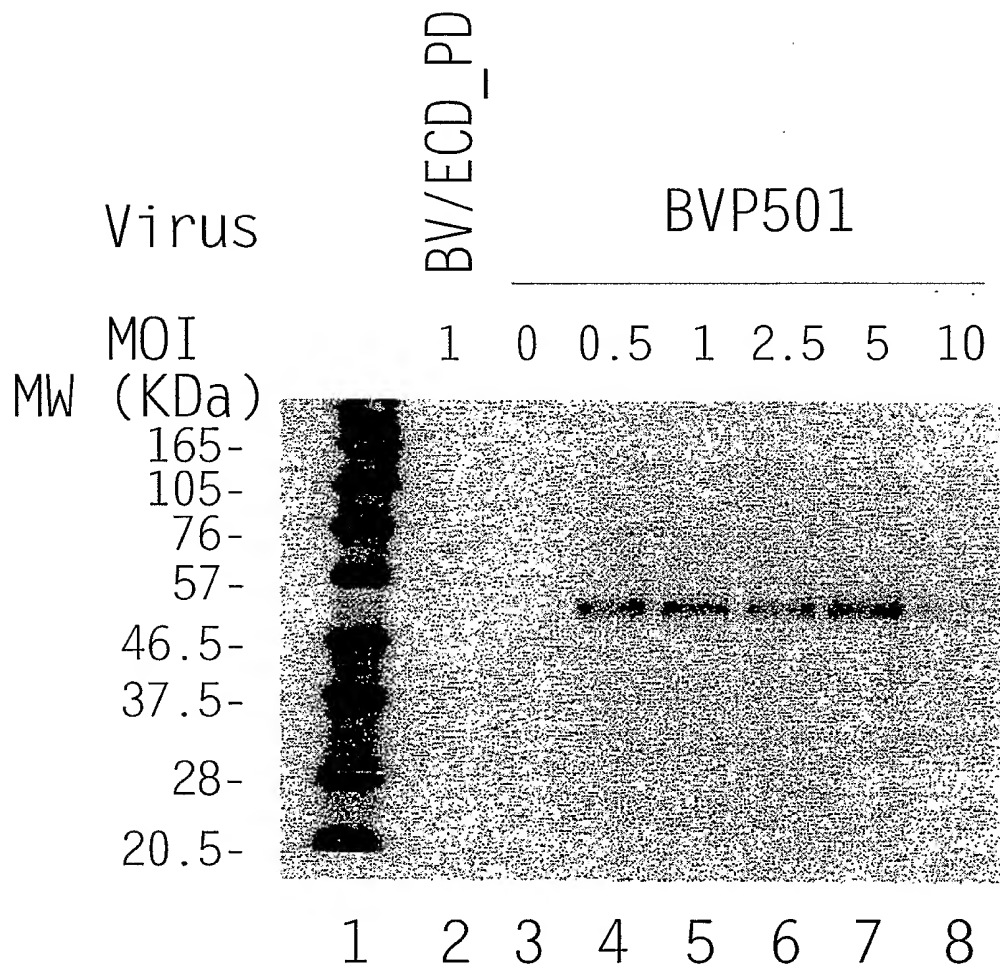
*Fig. 4**Fig. 5*

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*Fig. 6A**Fig. 6B*

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Expression of P501S
by the Baculovirus Expression System

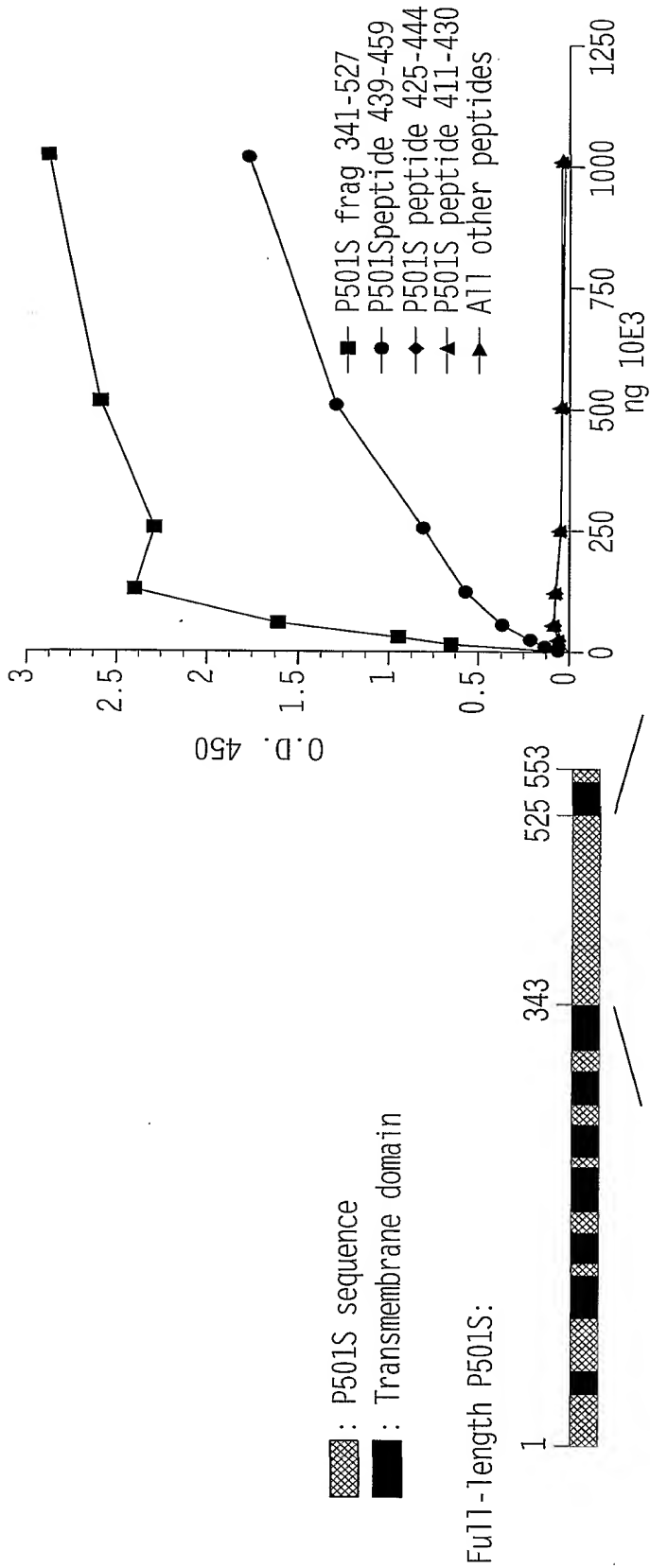


0.6 million high 5 cells in 6-well plate were infected with an unrelated control virus BV/ECD_PD (lane2), without virus (lane3), or with recombinant baculovirus for P501 at different MOIs (lane 4-8). Cell lysates were run on SDS-PAGE under the reducing conditions and analyzed by Western blot with a monoclonal antibody against P501S (P501S-10E3-G4D3). Lane 1 is the biotinylated protein molecular weight marker (BioLabs).

Fig. 7

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FIGURE 8. Mapping of the epitope recognized by 10E3-G4-D3



■ : P501S sequence
■ : Transmembrane domain

Full-length P501S:



P501S fragment used for immunization:

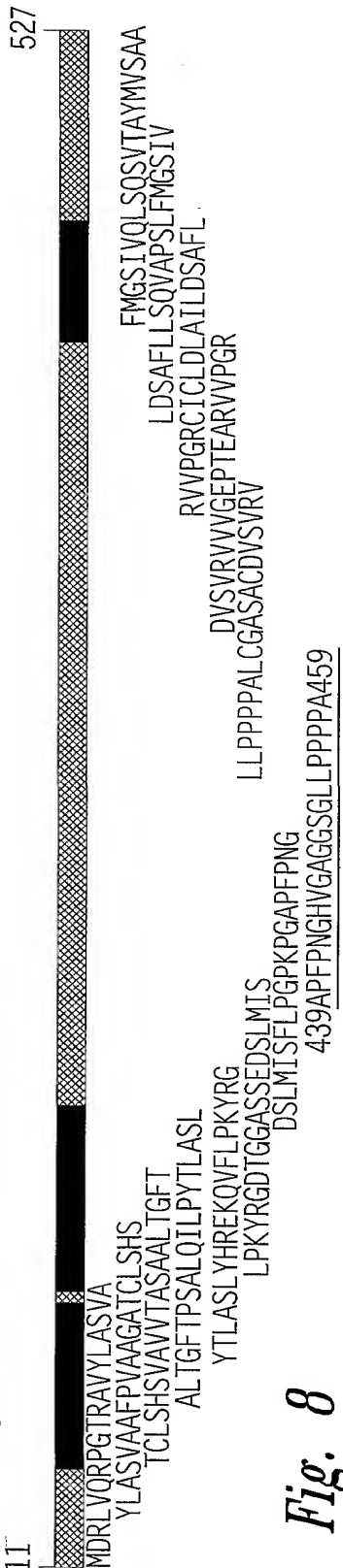


Fig. 8

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Schematic of P501S with predicted
transmembrane, cytoplasmic, and extracellular regions

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TMVLGIGPVLGLVCYPLLGSAS
 DHWRGRYGRRRP FIWALSLGILLSLFLIPRAGWL **AGLLCPDPRPLE** LALLILGVGLLDFCGQVCFTPL
EALLSDLFRDPDHCRQ AYSVYAFMISLGGCLGYLLPAI **DWDTSALAPYLGTQEE**
CLFGLLTLIFLTCVAATLLV AEEAALGPTEPAEGLSAPSLSPHCCPCRARLAFRNLGALLPRL
HQLCCRMPRTLRR LFVAELCSWMALMTFTLFYTDF **VGEGLYQGVPRAPGTEARRHYDEGVR**
MGSLGLFLQCAISLVFSLVM DRLVQRFGTRAVYLAS VAAFPVAAGATCLSHSVAVVTA **SAA**
LTGFTFSALQILPYTLASLY *HREKQVFLPKYRGDTGGASSEDSLMTSFLPGPKPGAPFPNGHVGAGGSGL*
LPPPPALCGASACDVSVRVVVGEPTEARVVPGRG ICLDLAILDSAFLLSQVAPSLF **MGSIVQLSQS**
VTAYMVSAAGLGLVAIYFAT *QVVFDKSDLAKYSA*

Underlined sequence: Predicted transmembrane domain; **Bold sequence**:
 Predicted extracellular domain; *Italic sequence*: Predicted intracellular
 domain. Sequence in bold/underlined: used generate polyclonal rabbit
 serum

Localization of domains predicted using HMMTOP (G.E. Tusnady and I. Simon
 (1998) Principles Governing Amino Acid Composition of Integral Membrane
 Proteins: Applications to topology Prediction. J. Mol Biol. 283, 489-506.

Fig. 9

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Genomic Map of (5) Corixa Candidate Genes

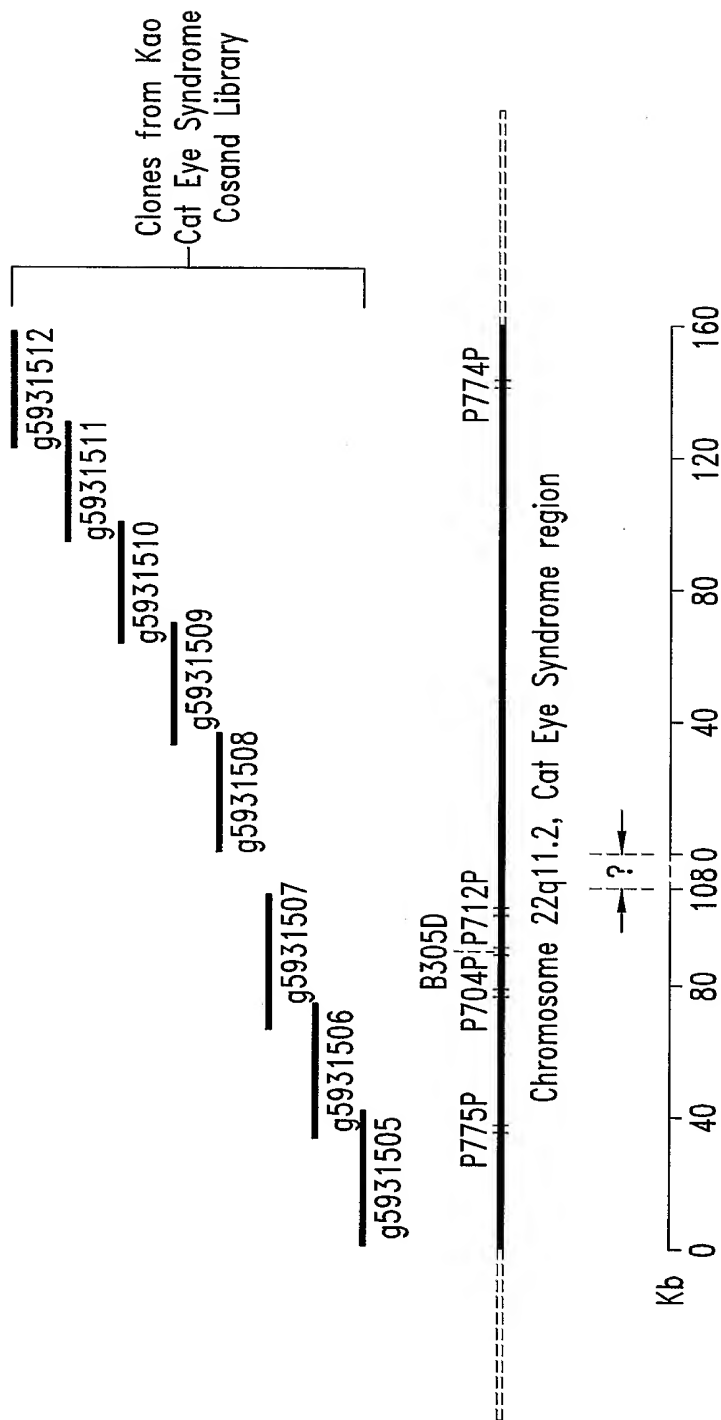


Fig. 10

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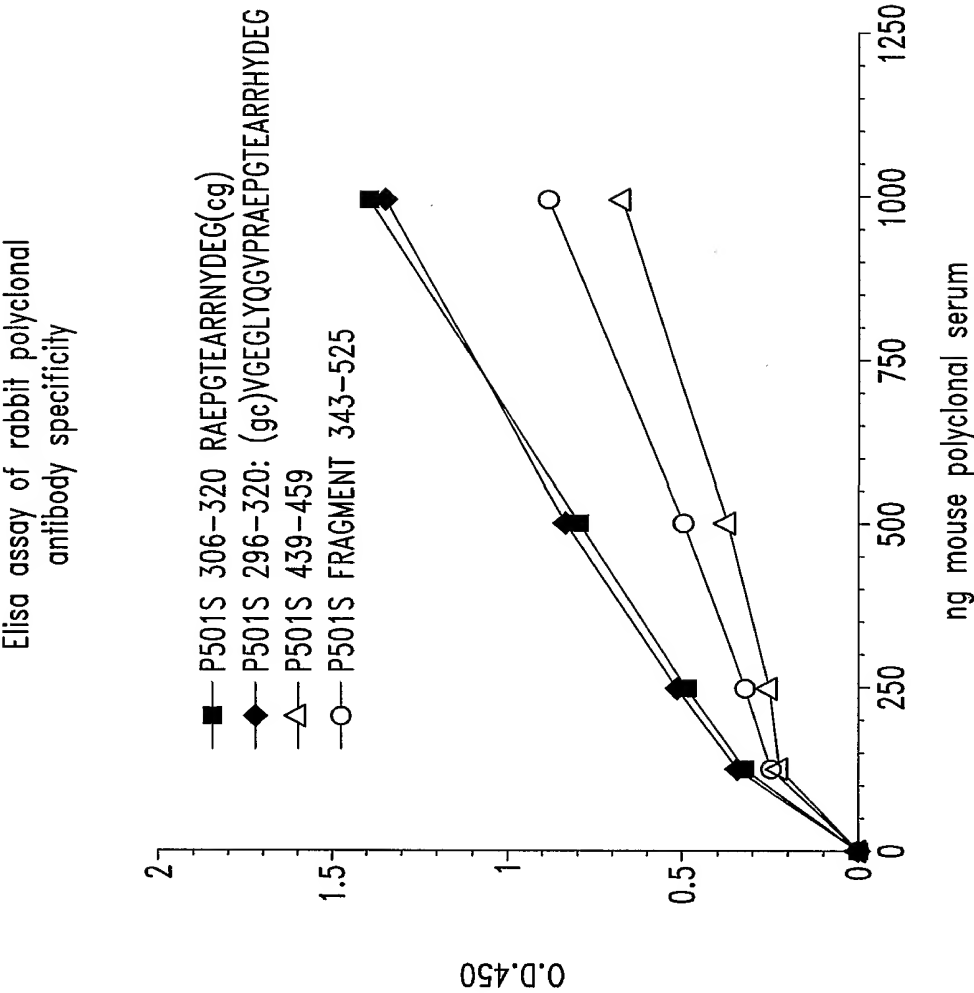


Fig. 11

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TTCTTTACCA	AAGATTCCAA	GGCCACGGAG	AATGTGTGCA	AGTGTGGCTA	TGCCCAGAGC	240
CAGCACATGG	AAGGCACCCA	GATCAACCAA	AGTGAGAAAT	GGAACTACAA	GAAACACACC	300
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AAGTATATAC	GTCTGTCCTG	CGACACGGAC	GCGGAAATCC	TTTACGAGCT	GCTGACCCAG	420
CACTGGCACC	TGAAAACACC	CAACCTGGTC	ATTTCTGTGA	CCGGGGGCGC	CAAGAACTTC	480
GCCCTGAAGC	CGCGCATGCG	CAAGATCTTC	AGCCGGCTCA	TCTACATCGC	GCAGTCCAAA	540
GGTGCTTGGA	TTCTCACGGG	AGGCACCCAT	TATGGCCTGA	CGAAGTACAT	CGGGGAGGTG	600
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GCTTGGGGCA	TGGTCTCCAA	CCGGGACACC	CTCATCAGGA	ATTGCGATGC	TGAGGGCTAT	720
TTTTTAGCCC	AGTACCTTAT	GGATGACTTC	ACAAGGGATC	CACTGTATAT	CCTGGACAAC	780
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Fig. 12A (1)

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Fig. 12A (2)

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Fig. 12A (3)

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Fig. 12B

SEQUENCE LISTING

<110> Corixa Corporation
 Xu, Jiangchun
 Dillon, Davin C.
 Mitcham, Jennifer L.
 Harlocker, Susan L.
 Yuqui, Jiang
 Kalos, Michael D.
 Fanger, Gary R.
 Retter, Marc W.
 Stolk, John A.
 Day, Craig H.
 Vedvick, Thomas S.
 Carter, Darrick
 Li, Samuel
 Wang, Aijun
 Skeiky, Yasir A.W.
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 Henderson, Robert A.

<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND
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 tcggaacact ggctgtctct gaagacttct cgctcagttt cagtgaggac acacacaaag 180
 acgtgggtga ccatgtttgtt tgtgggggtgc agagatggga ggggtggggc ccaccctgga 240
 agagtggaca gtgacacaag gtggacactc tctacagatc actgaggata agctggagcc 300
 acaatgcatg aggcacacac acagcaagga tgaonctgta aacatagccc acgctgtcct 360
 gngggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagtt 420
 ctanagcggc cgccaccgcg gtgganctcc ancttttgtt cccttttagtg aggggttaatt 480
 gcgcgccttg chtaactcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca 540
 attccacaca acatacganc cggaacata aantgtaaac ctgggggtgcc taatgantga 600
 ctaactcaca ttaattgcgt tgcgctcact gccgcctttc caatcnggaa acctgtcttg 660
 ccncttgcat tnatgaatcn gccaaccccc ggggaaaagc gtttgcgttt tgggcgctct 720
 tccgcttctt cncctcantta ntccctncnc tcggctcattc cggctgcngc aaaccgggtc 780
 accnctcca aaggggggtat tccggtttcc ccnaatccgg ggananc 828

<210> 5
 <211> 834
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(834)
 <223> n = A,T,C or G

<400> 5
 tttttttttt tttttactga tagatggaat ttattaagct tttcacatgt gatagcacat 60
 agttttaatt gcatccaaag tactaacaaa aaotctagca atcaagaatg gcagcatggt 120
 attttataac aatcaacacc tgtggctttt aaaatttgggt tttcataaga taattttatac 180
 tgaagtaaat cttagccatgc ttttaaaaaa tgcttttaggt cactccaagc ttggcagttta 240
 acatttgga taaacaataa taaaacaatc acaattttaat aaataacaaa tacaacattg 300
 tagggcataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360
 aatagaatac ctggcctct atgcaaatat gtctagacac tttgattcac tcagccctga 420
 cattcagttt tcaaagtagg agacagggtc tacagtatca ttttacagtt tccaacacat 480
 tgaaaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta 540
 tcaccaaccc cttagttata aaaaattttc aagttatatt agtcataata cttgggtgtgc 600
 ttatttttaa ttagtgctaa atggattaag tgaagacaac aatgggtccc taatgtgatt 660
 gatattggtc atttttacca gcttctaaat ctnaactttc aggcttttga actggaacat 720
 tgnatnacag tgttccanag ttncaaccta ctggaacatt acagtgtgct tgattcaaaa 780
 tgttattttt ttaaaaatta aattttaacc tggtggaaaa ataatttgaa atna 834

<210> 6
 <211> 818
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(818)
 <223> n = A,T,C or G

<400> 6

4

```

tttttttttt tttttttttt aagaccctca tcaatagatg gagacataca gaaatagtca      60
aaccacatct acaaaatgcc agtatcaggc ggcggcttcg aagccaaagt gatgtttgga      120
tgtaaagtga aatattagtt ggcggatgaa gcagatagtg aggaaagtgt agccaataat      180
gacgtgaagt ccgtggaagc ctgtggctac aaaaaatgtt gagccgtaga tgccgtcgga      240
aatggtgaag ggagactcga agtactctga ggcttgtagg agggtaaaat agagaccag      300
taaaattgta ataagcagtg cttgaattat ttggtttcgg ttgttttcta ttagactatg      360
gtgagctcag gtgattgata ctctgatgc gagtaatacg gatgtgttta ggagtgggac      420
ttctagggga tttagcgggg tgatgcctgt tgggggccag tgccctccta gttggggggt      480
aggggctagg ctggagtggg aaaaggctca gaaaaatcct gcgaagaaaa aaacttctga      540
ggtaataaat aggattatcc cgtatcgaag gccttttttg acaggtgggtg tgtggtggcc      600
ttggtatgtg ctttctcgtg ttacatcgcg ccatcattgg tataatggta gtgtgttggg      660
ttantangg ctantatgaa gaacttttgg antggaatta aatcaatngc ttggccggaa      720
gtcattanga nggctnaaaa ggccctgtta ngggtctggg ctnggtttta cccnaccat      780
ggaatncnc ccccggaacna ntgnatccct attcttaa      818

```

```

<210> 7
<211> 817
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

```

```

<400> 7
tttttttttt tttttttttt tggctctaga gggggtagag ggggtgctat agggtaaata      60
cgggccctat ttcaaagatt ttaggggaa ttaattctag gacgatgggt atgaaactgt      120
ggtttgctcc acagatttca gagcattgac cgtagtatac ccccggtcgt gtagcgggtga      180
aagtggtttg gtttagacgt ccgggaattg catctgtttt taagcctaata gtggggacag      240
ctcatgagtg caagacgtct tgtgatgtaa ttattatacn aatgggggct tcaatcggga      300
gtactactcg attgtcaacg tcaaggagtc gcaggtcgcc tggttctagg aataatgggg      360
gaagtatgta ggaattgaag attaatccgc cgtagtoggt gttctcctag gttcaatacc      420
attggtggcc aattgatttg atggtaaggg gagggatcgt tgaactcgtc tgttatgtaa      480
aggatncctt ngggatggga aggcnatnaa ggactangga tnaatggcgg gcangatatt      540
tcaaacngtc tctanttcct gaaacgtctg aaatgttaat aanaattaan ttngttatt      600
gaatnttnng gaaaagggct tacaggacta gaaaccaaata angaaaanta atnntaangg      660
cnttatcntn aaaggttnata accnctccta tnatcccacc caatngnatt ccccaenenn      720
acnattggat nccccanttc canaaanggc cncceccggg tgnannccnc cttttgttcc      780
cttnantgan ggttattcnc ccctngcntt atcance      817

```

```

<210> 8
<211> 799
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G

```

```

<400> 8
catttcgggg ttacttttct aaggaaagcc gagcgggaagc tgctaacgtg ggaatcgggtg      60
cataaggaga actttctgct ggcacgcgct agggacaagc gggagagcga ctccgagcgt      120
ctgaagcgca cgtcccagaa ggtggacttg gcaactgaaac agctgggaca catccgcgag      180
tacgaacagc gcctgaaagt gctggagcgg gaggtccagc agtgtagccg cgtcctgggg      240
tgggtggccg angcctganc cgctctgcct tgctgcccc angtgggccg ccacccccctg      300
acctgcctgg gtccaaacac tgagccctgc tggcggactt caagganaac cccacangg      360

```

```

ggatttttgc tctanantaa ggctcatctg ggccctgggc ccccccacctg gttggccttg 420
tctttgangt gagcccatg tccatctggg ccactgtcng gaccaccttt ngggagtgtt 480
ctccttacaa ccacannatg cccggctcct cccggaaacc antcccancc tnggaaggat 540
caagnccctgn atccactnnt nctanaaccg gccnccnccg cngtggaacc cnccttntgt 600
tctttttcnt tnagggttaa tnnccgcttg gccttnccan ngctcctncnc nttttccnnt 660
gttnaaattg ttangcnccc nccnntcccn cncnncnnan cccgaccenn annttnnann 720
nccctgggggt nccnncngat tgaccenncc nccctntant tgcnttnggg nncnntgccc 780
ctttccctct nggganncg 799

```

```

<210> 9
<211> 801
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

```

```

<400> 9
acgccttgat cctcccaggc tgggactggt tctgggagga gccgggcatg ctgtgggttg 60
taangatgac actcccaaag gtggtcctga cagtgggcca gatggacatg gggctcacct 120
caaggacaag gccaccaggc gcgggggccc aagccacat gatccttact ctatgagcaa 180
aatccctgtt gggggcttct ccttgaagtc cgccancagg gctcagtctt tggacccang 240
caggctcatg ggttgtnngc caactggggg ccncaacgca aaanggcncn ggcctcngn 300
caccatccc angacgggc tacactnctg gacctccnc tccaccactt tcatgcgctg 360
ttcntaccg cgnatntgtc ccancgtgtt cngtgccnac tccancttct nggacgtgcg 420
ctacatacgc cgggantcnc nctcccgtt tgtccctatc cacgtncan caacaaattt 480
cncntantg caccnattcc cacttttnc agntttccnc nncngcctt cttntaaaag 540
ggttgancec cggaatnc cccaaaggg gggggcngg tacccaactn cccctnata 600
gctgaantcc ccatnaccnn gnctcnatgg anccntccnt ttttaannacn ttctnaactt 660
gggaanance ctcgnccntn ccccnntaa tcccnccctg cnangnnent ccccnntcc 720
nccnntng gcntntnann cnaaaaaggc cnnnancaa tctcctnnn cctcanttcg 780
ccanccctcg aaatcgccn c
801

```

```

<210> 10
<211> 789
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

```

```

<400> 10
cagtctatnt ggccagtgtg gcagctttcc ctgtggctgc cgggtgccaca tgcctgtccc 60
acagtgtggc cgtgggtgaca gcttcagccg cctcaccgg gttcaccttc tcagccctgc 120
agatcctgcc ctacacactg gcctccctct accaccggga gaagcagggt ttcttgccca 180
aataccgagg ggacactgga ggtgctagca gtgaggacag cctgatgacc agcttcctgc 240
caggccctaa gcctggagct cccttcctta atggacacgt ggggtgctga ggcagtggcc 300
tgctccacc tccaccggc ctctgcggg cctctgcctg tgatgtctcc gtacgtgtgg 360
tggtgggtga gccaccgan gccagggtg ttcggggccg gggcatctgc ctggacctcg 420
ccatcctgga tagtgcttcc tgctgtccca ngtgggccca tccctgttta tgggtccat 480
tgtccagctc agccagtctg tcactgccta tatggtgtct gccgcaggcc tgggtctggg 540
cccatttact ttgctacaca ggtantattt gacaagaacg anttggccaa atactcagcg 600
ttaaaaaatt ccagcaacat tgggggtgga aggcctgcct cactgggtcc aactccccgc 660
tctgtttaac cccatggggc tgccggcttg gcgcgaatt tctgttgctg ccaaantnat 720

```

```
gtggctctct gctgccacct gttgctggct gaagtgcnta cngcncanct ngggggggtng 780
ggngttccc 789
```

```
<210> 11
<211> 772
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G
```

```
<400> 11
cccacctac ccaaataatta gacaccaaca cagaaaagct agcaatggat tcccttctac 60
tttgttaaat aaataagtta aatatTTTaaa tgcctgtgtc tctgtgatgg caacagaagg 120
accaacaggc cacatcctga taaaaggtaa gaggggggtg gatcagcaaa aagacagtgc 180
tgtgggctga ggggacctgg ttcttgtgtg ttgcccctca ggactcttcc cctacaaata 240
actttcataat gttcaaatcc catggaggag tgtttcatcc tagaaactcc catgcaagag 300
ctacattaaa cgaagctgca ggttaagggg cttanagatg ggaaaccagg tgactgagtt 360
tattcagctc ccaaaaaccc ttctctaggt gtgtctcaac taggaggcta gctgttaacc 420
ctgagcctgg gtaatccacc tgcagagtcc ccgcattcca gtgcatggaa cccttctggc 480
ctccctgtat aagtccagac tgaaccccc ttggaaggnc tccagtcagg cagecctana 540
aactggggaa aaaagaaaag gacgccccan ccccagctg tgcantacg cacctcaaca 600
gcacagggtg gcagcaaaaa aaccacttta ctttggcaca aacaaaaact nggggggggca 660
accccggcac cccnangggg gttaacagga ancnggnaa cntggaacc aatnaggca 720
ggcccnccac ccnaatntt gctgggaaat ttttccctcc ctaaatntt tc 772
```

```
<210> 12
<211> 751
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G
```

```
<400> 12
gcccgaattc cagctgccac accacccacg gtgactgcat tagttcggat gtcatacaaa 60
agctgattga agcaaccctc tacttttttg tcgtgagcct tttgcttggg gcaggtttca 120
ttggctgtgt tggtagcgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg 180
aagtanggtg agtccctcaa atccgtatag ttggtgaagc cacagcactt gagccctttc 240
atggtggtgt tccacacttg agtgaagtct tcctgggaac cataatcttt cttgatggca 300
ggcactacca gcaacgtcag ggaagtgtc agccattgtg gtgtacacca aggcgaccac 360
agcagctgcn acctcagcaa tgaagatgan gaggangatg aagaagaacg tcncgagggc 420
acacttgctc tcagctcttan caccatanca gccntgaaa accaananca aagaccacna 480
cnccggctgc gatgaagaaa tnaccccnog ttgacaaact tgcattggcac tggganccac 540
agtggccnna aaaatcttca aaaaggatgc cccatcnatt gaccccccaa atgccactg 600
ccaacagggg ctgccccacn cncnnaacga tgancnatt gnacaagatc tncntggtct 660
tnatnaacnt gaacctgcn tngtggctoc tgttcaggnc cnnngcctga cttctnaann 720
aangaactcn gaagncccca cngganannc g 751
```

```
<210> 13
<211> 729
<212> DNA
<213> Homo sapien
```


<220>
 <221> misc_feature
 <222> (1)...(729)
 <223> n = A,T,C or G

<400> 13
 gagccaggcg tccctctgcc tgcccactca gtggcaacac ccgggagctg ttttgtcctt 60
 tgtggancct cagcagtncc ctctttcaga actcantgcc aaganccctg aacaggagcc 120
 accatgcagt gcttcagctt cattaagacc atgatgatcc tcttcaattt gctcatcttt 180
 ctgtgtggtg cagccctgtt ggcagtgggc atctgggtgt caatcgatgg ggcacacctt 240
 ctgaagatct tcggggccact gtcgtccagt gccatgcagt ttgtcaacgt gggctacttc 300
 ctcatcgtag ccggcggttg ggtcttagct ctaggtttcc tgggctgcta tgggtgctaag 360
 actgagagca agtgtgccct cgtgacgttc ttcttcaccc tcctcctcat cttcattgct 420
 gaggttgcaa tgctgtggtc gccttggtgt acaccacaat ggctgagcac ttctgacgt 480
 tgctggtaat gcctgccatc aanaaaagat tatgggttcc caggaanact tcaactcaagt 540
 gttggaacac caccatgaaa gggctcaagt gctgtggctt cncccaacta tacggatttt 600
 gaagantcac ctacttcaaa gaaaanagtg cctttccccc atttctgttg caattgacaa 660
 acgtcccaaa cacagccaat tgaaaacctg caccacaacc aaanggggtcc ccaaccanaa 720
 attnaaggg 729

<210> 14
 <211> 816
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(816)
 <223> n = A,T,C or G

<400> 14
 tgctcttctt caaagttggt cttgttgcca taacaaccac cataggtaaa gcgggcgcag 60
 tgttgcgtga aggggttgta gtaccagcgc gggatgctct ccttgagag tctgtgtct 120
 ggcagggtcca cgcagtgcc tttgtcactg gggaaatgga tgcgctggag ctctgcaaag 180
 ccactcgtgt atttttcaca ggcagcctcg tccgacgcgt cggggcagtt ggggggtgtct 240
 tcacactcca ggaactgtc natgcagcag ccattgctgc agcggaactg ggtgggctga 300
 cangtgccag agcacactgg atggcgctt tccatgnnan gggccctgng ggaaagtccc 360
 tgancccan anctgcctct caaangcccc acctgcaca ccccgacagg ctagaatgga 420
 atcttcttcc cgaaaggtag ttnttcttgt tgcccaancc anccccntaa acaaactctt 480
 gcanatctgc tccngggggg tcntantacc ancggtggaa aagaacccca ggcngcgaac 540
 caancttggt tggatncgaa gcnataatct nctnttctgc ttggtggaca gcaccantna 600
 ctgtnnanct ttagnccntg gtctcnttgg gttgnncttg aacctaatcn ccnntcaact 660
 gggacaagg t aantngccnt cctttnaatt ccnancntn ccccttggtt tgggggtttt 720
 cncnctccta ccccgagaaan nccgtgttcc cccccaacta ggggccnaaa ccnnttnttc 780
 cacaaccctn cccacccac ggttcngnt ggttng 816

<210> 15
 <211> 783
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(783)
 <223> n = A,T,C or G

<400> 15
 ccaaggcctg ggcaggcata naattgaagg tacaacccca ggaaccctg gtgctgaagg 60

```

atgtggaaaa cacagattgg cgcctactgc ggggtgacac ggatgtcagg gtagagagga 120
aagacccaaa ccaggtggaa ctgtggggac tcaaggaang cacctacctg ttccagctga 180
cagtactag ctacagaccac ccagaggaca cggccaacgt cacagtoact gtgctgtcca 240
ccaagcagac agaagactac tgccctcgcat ccaacaangt gggtcgctgc cggggctctt 300
tcccacgctg gtactatgac cccacggagc agatctgcaa gagtttctgt tatggaggct 360
gcttgggcaa caagaacaac taccttcggg aagaagagtg cattctancc tgtcnggggtg 420
tgcaaggtgg gcctttgana ngcanctctg gggctcangc gactttcccc cagggcccct 480
ccatggaaa ggcgcatcca ntgttctctg gcacctgtca gcccaccag ttccgctgca 540
ncaatggctg ctgcacnac antttcctng aattgtgaca acacccccca ntgcccccaa 600
ccctcccaac aaagcttccc tgttnaaaaa tacnccantt ggcttttnac aaacnccggg 660
cncctcctt ttccccnntn aacaaagggc nctngccttt gaactgcccn aaccnnggaa 720
tctnccnngg aaaaantncc cccctgggtt cctnnaance cctccncaa anctncccc 780
ccc 840

```

```

<210> 16
<211> 801
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

```

```

<400> 16
gccccaatc agctgccac accaccacg gtgactgcat tagttcggat gtcatacaaa 60
agctgattga agcaaccctc tactttttgg tcgtgagcct tttgcttggg gcaggtttca 120
ttggctgtgt ttgtgacgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg 180
aagtaggggt agtcctcaaa atccgtatag ttgtgaaagc cacagcactt gagccctttc 240
atgggtgggt tccacacttg agtgaagtct tcctgggaac cataatcttt ctgatggca 300
ggcactacca gcaacgtcag gaagtgtcga gccattgtgg tgtacaccaa ggcgaccaca 360
gcagctgcaa cctcagcaat gaagatgagg aggaggatga agaagaacgt cncgagggca 420
cacttgctct ccgtcttagc accatagcag ccangaaac caagagcaaa gaccacaacg 480
cngctgcca atgaaagaaa ntaccacgt tgacaaaact catggccact ggacgacagt 540
tgcccgaan atcttcagaa aagggatgcc ccatcgattg aacacccana tgcccactgc 600
cnacagggct gcncncncn gaaagaatga gccattgaag aaggatcctc ntggctctaa 660
tgaactgaaa cntgcatgg tggccctgt tcagggtctt tggcagtgaa ttctganaaa 720
aaggaacngc nttagccccc ccaaangana aaacaccccc ggggtgttgc ctgaattggc 780
ggcaaggan cctgccccn g 840

```

```

<210> 17
<211> 740
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

```

```

<400> 17
gtgagagcca ggcgtccctc tgccctgccca ctcagtggca acacccggga gctgttttgt 60
cctttgtgga goctcagcag ttccctcttt cagaactcac tgccaagagc cctgaacagg 120
agccaccatg cagtgttcca gcttcattaa gaccatgatg atcctcttca atttgtcat 180
ctttctgtgt ggtgcagccc tgttggcagt gggcatctgg gtgtcaatcg atggggcatc 240
ctttctgaag atcttcgggc cactgtcgtc cagtgccatg cagtttgtca acgtgggcta 300
cttctcctc gcagccggcg ttgtggtctt tgctcttggg ttccctgggt gctatgggtg 360
taagacggag agcaagtgtg ccctcgtgac gttcttcttc atcctcctcc tcctcttcat 420

```

tgctgaagtt	gcagctgctg	tggtcgccctt	ggtgtacacc	acaatggctg	aaccattcct	480
gacgttgctg	gtantgcctg	ccatcaanaa	agattatggg	ttcccaggaa	aaattcactc	540
aantntggaa	caccnccatg	aaaagggctc	caattttotgn	tggtctcccc	aactataccg	600
gaattttgaa	agantcncct	tacttccaaa	aaaaaanant	tgccttttnc	cccntttctgt	660
tgcaatgaaa	acntoccaan	acngccaatn	aaaacctgcc	cnnncaaaaa	ggntcncaaa	720
caaaaaaant	nnaagggttn					740

<210> 18
 <211> 802
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(802)
 <223> n = A,T,C or G

<400> 18						
ccgctgggttg	cgctgggtcca	gngnagccac	gaagcacgctc	agcatacaca	gcctcaatca	60
caaggtcttc	cagctgccgc	acattacgca	gggcaagagc	ctccagcaac	actgcatatg	120
ggatacactt	tacttttagca	gccagggtga	caactgagag	gtgtcgaagc	ttattcttct	180
gagcctctgt	tagtggagga	agattccggg	cttcagctaa	gtagtacgag	tatgtcccat	240
aagcaaacac	tgtgagcagc	cggaaggtag	aggcaaagtc	actctcagcc	agctctctaa	300
cattgggcat	gtccagcagt	tctccaaaca	cgtagacacc	agnggcctcc	agcacctgat	360
ggatgagtgt	ggccagcgct	gcccccttgg	ccgacttggc	taggagcaga	aattgctcct	420
ggttctgccc	tgtcaccttc	acttccgcac	tcactcactgc	actgagtgtg	ggggacttgg	480
gctcaggatg	tccagagacg	tggttccgcc	ccctcncctta	atgacaccgn	ccanncaacc	540
gtcggctccc	gcccantgng	ttcgtcgtnc	ctgggtcagg	gtctgctggc	cnctacttgc	600
aancttcgtc	nggcccattg	aattcaccnc	accggaactn	gtangatcca	ctnnttctat	660
aaccggncgc	caccgcnnnt	ggaactccac	tcttnttnc	tttacttgag	ggttaagggtc	720
acccttnncc	ttaccttggt	ccaaaccntn	ccntgtgtgc	anatngtnaa	tcnggncnca	780
tnccanccnc	atangaagcc	ng				802

<210> 19
 <211> 731
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(731)
 <223> n = A,T,C or G

<400> 19						
cnaagcttcc	aggtnacggg	ccgcnaancc	tgaccnagg	tancanaang	cagnncgcgg	60
gagccaccgc	tcacngngng	gngtctttat	nggagggggc	ggagccacat	cnctggacnt	120
cntgacccca	actcccccnc	ncncantgca	gtgatgagtg	cagaactgaa	ggtnacgtgg	180
caggaaccaa	gancaaannc	tgctccnntc	caagtcggcn	nagggggcgg	ggctggccac	240
gencatccnt	cnagtgtctg	aaagccccnn	cctgtctact	tgtttgagga	acngcnnnga	300
catgcccagn	gttanataac	nggcngagag	tnantttgce	tctcccttcc	ggctgogcan	360
cngtntgtct	tagnggacat	aacctgacta	cttaactgaa	cccnnngaac	tnccnccct	420
ccactaagct	cagaacaaaa	aacttcgaca	ccactcantt	gtcacctgnc	tgctcaagta	480
aagtgtaccc	catncccaat	gtntgctnga	ngctctgncc	tgcnttangt	tcggctcctgg	540
gaagacctat	caattnaagc	tatgtttctg	actgcctctt	gctccctgna	acaancnacc	600
cnncnntcca	agggggggnc	ggcccccaat	ccccccaacc	ntnaattnan	tttanccccc	660
ccccngggcc	cgccctttta	cnancntcnn	nnacngggna	aaaccnnngc	tttncccaac	720
nnaatccncc	t					731

10

<210> 20
 <211> 754
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(754)
 <223> n = A,T,C or G

<400> 20
 tttttttttt tttttttttt taaaaacccc ctccattnaa tgnaaacttc cgaaattgtc 60
 caaccccctc ntccaaatnn ccntttccgg gnggggggttc caaacccaan ttannnttgg 120
 annnttaaatt aaatnttntt tggnggnnna anccnaatgt nangaaagt naaccanta 180
 tnancctnaa tncctggaaa cngtngntt ocaaaaatnt ttaaccctta antccctccg 240
 aaatngttna nggaaaaccc aantttctnt aagggttggtt gaaggntnaa tnaaaanccc 300
 nnccaattgt ttttngccac gcctgaatta attggnttcc gntgttttcc nttaaaanaa 360
 ggnnancccc gggtantnaa tccccccnnc occaattata ccganttttt ttngaattgg 420
 gancccnccg gaattaacgg ggnnnntccc tnttgggggg cnggnncccc ccccntcggg 480
 ggttngggnc aggnccnaat tgtttaaggg tccgaaaaat cctccnaga aaaaaancctc 540
 ccaggntgag nntnggggtt ncccccccc canggccctc ctcgnanagt tgggggttgg 600
 ggggcctggg attttntttc ccctnttnc tcccccccc ccnggganag aggttngngt 660
 tttgntcnnc ggccccnccn aaganctttn ccganttnan ttaaaccnt gcctnggcga 720
 agtcocnttg agggnntaaan ggccccctnn cggg 754

<210> 21
 <211> 755
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(755)
 <223> n = A,T,C or G

<400> 21
 atcancccat gaccccaaac nngggaccnc tcancggnc nnncnaccnc cgcccnatca 60
 nngtnagnnc actncnntn natcacnccc cncnactac gcccnananc cnacgcnccta 120
 nncanatncc actganngcg cgangtngan ngagaaanct nataccanag ncaccanacn 180
 ccagctgtcc nanaangcct nnnatacngg nnnatccaat ntgnancctc cnaagtattn 240
 nncnncanac gattttcctn anccgattac ccntncccc tanccctcc cccccaacna 300
 cgaaggcnct ggncnaagg nngcgnccc ccgctagntc ccnncnaagt cncncncccta 360
 aactcanccn nattaacncc ttcttgagta tcaactcccc aatctcacc tactcaactc 420
 aaaaanacn gatacaaaat aatncaagc tgnttatnac actntgactg ggtctctatt 480
 ttagnnggtc ntnaancntc ctaatacttc cagtctncct tcnccaattt ccnaanggct 540
 ctttngaca gcatnttttg gttcccnntt ggggttcttan ngaattgccc ttctntgaac 600
 gggctontct tttccttcgg ttancctggg ttcnncggc cagttattat ttcccntttt 660
 aaattontnc cntttanttt tggcnttca aacccccggc cttgaaaacg gccccctggg 720
 aaaagggtgt tttganaaaa tttttgtttt gttcc 755

<210> 22
 <211> 849
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(849)

<223> n = A,T,C or G

<400> 22

tttttttttt	tttttangtg	tngtcgtgca	ggtagaggct	tactacaant	gtgaanacgt	60
acgctnggan	taangcgacc	cganttctag	gannncncct	aaaatcanac	tgtgaagatn	120
atcctgnnna	cggaanggtc	accggnngat	nntgctaggg	tgncncctcc	cannncnttn	180
cataactcng	nggccctgcc	caccaccttc	ggggggccng	ngnccgggcc	cgggtcattn	240
gnnttaacn	cactnngcna	ncggtttccn	ncccnncng	accnngcgca	tccgggggtnc	300
tctgtcttcc	cctgnagncn	anaaantggg	ccnccgnccc	ctttaccct	nnacaagcca	360
cngccttota	nccnccgccc	cccctccant	nngggggact	gccnanngct	ccgttncntng	420
nnaccccnnn	gggtncctcg	gttgtcgant	cnaccgnang	ccanggattc	cnaaggaagg	480
tgcgttnttg	gcccctaccc	ttcgctnccg	nncacccttc	ccgacnanga	nccgctcccg	540
cncnccngng	cctcncctcg	caacacccgc	notcntcngt	nccgnnnccc	ccccacccgc	600
nccctcncnc	ngnccgnancn	ctccnccncc	gtctcannca	ccaccccgcc	ccgccaggcc	660
ntcanccacn	ggngacnng	nagcncnntc	gcncgcgcgn	gcgnccct	cgccnngaa	720
ctnccntcngg	ccantnncgc	tcaanccnna	cnaaacgcgc	ctgcgcggcc	cgnagcgncc	780
noctccncca	gtcctcccgn	cttccnacc	angnnttcn	cgaggacacn	nnaccccgcc	840
nncangcgg						849

<210> 23

<211> 872

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(872)

<223> n = A,T,C or G

<400> 23

gcgcaaaacta	tacttcgctc	gnactcgtgc	gcctcgtcnc	tcttttcctc	cgcaaccatg	60
tctgacnanc	ccgattnggc	ngatatonan	aagntcganc	agtccaaact	gantaacaca	120
cacacncnan	aganaaatcc	notgccttcc	anagtanacn	attgaacnng	agaaccangc	180
nggcgaatcg	taatnaggcg	tgcgcgcgcca	atntgtcncc	gtttattntn	ccagcntcnc	240
ctnccnacc	tacntcttcn	nagctgtcnn	accctngtn	cgnaccccc	naggtcggga	300
togggttttn	nntgaccng	cnnccctcc	cccctccat	nacganccnc	ccgcaccacc	360
nanngcncgc	ncccggnct	cttcgcnc	ctgtcctntn	ccctgtngc	ctggcncngn	420
accgcattga	ccctgcgnn	ctnccnngaaa	ncgnanacgt	ccgggttggn	annancgctg	480
tgggnnngcg	tctgcncgc	gttccctccn	ncncttcca	ccatcttct	tacngggctc	540
cncgcctc	tcnnncacnc	cctgggacgc	tnctctntgc	cccccttnac	tccccctt	600
cngcgtgncc	cgccccacc	ntcatttnca	nacgntcttc	acaannncct	ggntnnctcc	660
cnancngncn	gtcanccnag	ggaaggngg	ggnnccnntg	nttgacgttg	ngngangtc	720
cgaanantcc	tcnccntcan	cnctacccct	cgggcgnct	ctcngttnc	aacttancaa	780
ntctcccccg	ngngcncntc	tcagcctcnc	cncccccnc	ctctgcantg	tnctctgctc	840
tnaccnntac	gantnttcgn	cncctcttt	cc			872

<210> 24

<211> 815

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(815)

<223> n = A,T,C or G

<400> 24

gcatgcaagc	ttgagtattc	tatagngtca	cctaaatanc	ttggcntaat	catggctcnta	60
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12

nctgncttcc	tgtgtcaa	gtatacna	tanatatga	tctnatntga	caaganngta	120
tcntncatta	gtaacaantg	tnntgtccat	cctgtcngan	canattccca	tnnattnn	180
cgcattnn	gcncantatn	taatngggaa	ntcnmntnnn	ncaccnnca	ctatcntncc	240
gcncctgac	tggnagagat	ggatnanttc	tnntntgacc	nacatgttca	tcttggattn	300
aanancccc	cgcnngccac	cggttngnng	cnagccnntc	ccaagacctc	ctgtggaggt	360
aacctgcgtc	aganncatca	aacntgggaa	acccgcnncc	angtnnaagt	ngnnncanan	420
gatcccgctc	aggnttnacc	atcccttcnc	agcgccccct	ttngtgcctt	anagnnagc	480
gtgtccnanc	cngtcaacat	ganacgcgcc	agnccanccg	caattnggca	caatgtcgnc	540
gaaccccta	gggggantna	tncaaanc	caggattgtc	cncncangaa	atcccnanc	600
ccnccctac	ccnctttgg	gacngtgacc	aantcccgga	gtncaggtcc	ggcngnctc	660
ccccaccgt	nncntgggg	gggtgaanct	cngnntcanc	cngncgaggn	ntcgnaagga	720
accggnccn	ggncgaanng	ancnntcnga	agngccnnt	cgtataaccc	cccctcncca	780
nccnacngnt	agntcccccc	cngggtncgg	aangg			815

<210> 25
 <211> 775
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(775)
 <223> n = A,T,C or G

<400> 25						
ccgagatgtc	tcgtccgtg	gccttagctg	tgctcgcgt	actctctctt	tctggcctgg	60
aggctatcca	gcgtactcca	aagattcagg	tttactcacg	tcattccagca	gagaatggaa	120
agtcaaat	cctgaattgc	tatgtgtctg	ggtttcatcc	atccgacatt	gaanttgact	180
tactgaagaa	tggnagagaa	attgaaaaag	tgagagcatc	agacttgtct	ttcagcaagg	240
actggtcttt	ctatctcntg	tactacactg	aattcacc	cactgaaaaa	gatgagtatg	300
cctgccgtgt	gaaccatgtg	actttgtcac	agcccaagat	agttaagtgg	gatcgagaca	360
tgtaagcagn	cnncatggaa	gtttgaagat	gccgcatttg	gattggatga	attccaaatt	420
ctgcttgctt	gcntttta	antgatatgc	ntatacaccc	taccctttat	gncccaaat	480
tgtaggggtt	acatnantgt	tcnctnngga	catgatcttc	ctttataant	ccnccnttcg	540
aattgcccg	cnccngttn	ngaattgttc	cnnaaccacg	gttggtctcc	ccaggtcncc	600
tcttacggaa	gggcctgggc	cnctttncaa	ggttggggga	accnaaaatt	tcnctntgc	660
ccncccncca	cnntcttgng	nncncanttt	ggaacccttc	cnattccctt	tggcctcnna	720
nccttinncta	anaaaacttn	aaancgtngc	naaanntttt	acttcccccc	ttacc	775

<210> 26
 <211> 820
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(820)
 <223> n = A,T,C or G

<400> 26						
anattantac	agtgtaatct	tttcccagag	gtgtgtanag	ggaacggggc	ctagaggcat	60
cccanagata	ncttatanca	acagtgcctt	gaccaagagc	tgctgggcac	atttctgtca	120
gaaaagggtg	cgggtcccat	cactcctcct	ctcccatagc	catcccagag	gggtgagtag	180
ccatcangcc	ttcgggtggga	gggagtcang	gaaacaacan	accacagagc	anacagacca	240
ntgatgacca	tgggcgggag	cgagcctctt	ccctgnaccg	gggtggcana	nganagccta	300
nctgaggggt	cacactataa	acgttaacga	ccnagatnan	cacctgcttc	aagtgcaccc	360
ttctactctg	acnaccang	accnnnaact	gcngcctggg	gacagcnctg	ggancagcta	420
acnnagcact	cacctgcccc	cccatggccg	tnccgntccc	tggtcctgnc	aagggaagct	480

13

```

ccctgttgga attncgggga naccaaggga nccccctcct ccantctgtga aggaaaaaann 540
gatggaattt tnccttccg gccnntcccc tcttcttita cagccccct nntactcntc 600
tccctctntt ntccgtncnc acttttnacc ccnnnatttc ccttnattga tcggannctn 660
ganattccac tnnccctnc cntcnatcng naanacnaaa nactntctna cccnggggat 720
gggnncctcg ntcctcctct ctttttctct accnccnntt ctttgcctct ccttngatca 780
tccaacntc gntggcctn ccccccnntt tcttttcccc 820

```

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<210> 27
<211> 818
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

```

```

<400> 27
tctgggtgat ggctcttcc tcctcagga cctctgactg ctctgggcca aagaatctct 60
tgtttcttct ccgagcccca ggcagcgggtg attcagccct gcccaacctg attctgatga 120
ctgcggatgc tgtgacggac ccaaggggca aataggggtcc cagggtccag ggaggggcgc 180
ctgctgagca ctcccgcccc tcacctgcc cagccctgc catgagctct ggctgggtc 240
tccgcctcca gggttctgct ctccangca ngccancaag tggcgctggg ccacactggc 300
ttcttctgc ccctccctg gctctganc tctgtcttcc tgtcctgtgc angcnccttg 360
gatctcagtt tccctcctc anngaactct gtttctgann tcttcantta actntgantt 420
tatnaccnan tggnetgtnc tgtcnnactt taatgggcn gaccggctaa tccctccctc 480
nctcccttcc anttccnnna accngcttnc cntctctcc centancccg ccnggggaanc 540
ctcctttgcc ctnacccang gccnnnaccg cccntnnctn ggggggcnng gtnnctncnc 600
ctgntnnccc cncctcncnt tncctcgtcc cnnccnccgn nngcannttc ncngtcccn 660
tnnctcttct ngntcgnaa ngntcncntn tnnnnngncc ngntnntncc tccctctcnc 720
cnnntgnang tnnntnnnnc ncngnncccc nnnnnnnnn nggnntnnn tctnccngc 780
ccnncccc cngnattaagg cctccnntct ccggccnc 818

```

```

<210> 28
<211> 731
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

```

```

<400> 28
aggaagggcg gagggatatt gtangggatt gagggatagg agnataang ggaggggtgtg 60
tccaacatg anggtgnngt tctcttttga angaggggtg ngtttttann ccnggtgggt 120
gattnaaccc cattgtatgg agnnaaagg ttttagggat ttttcggctc ttatcagtat 180
ntanattcct gtnaatcgga aaatnatntt tonncnggaa aatnttgctc ccatccgnaa 240
attnctcccg ggtagtgcatt nttngggggn cngccangtt tcccaggctg ctanaatcgt 300
actaaagntt naagtgggan tncaaatgaa aacctnnac agagnatccn taccogactg 360
tnnnttncct tcgccctntg actctgcnn agcccaatac ccngngnat gtcncccn 420
nnngcgcnc tgaaannnnc tcngggctnn gancatcang gggtttcgca tcaaaaagcnn 480
cgtttncat naaggcactt tngcctcatc caaccnctng cctcnncca tttngccgtc 540
nggttncct acgctnntng cncctnnntn ganattttnc ccgcctnggg naancctcct 600
gnaatgggta gggnccttntc ttttnaccnn gnggtntact aatcnnctnc acgcntnctt 660
tctnaccoc cccctttttt caatccanc ggcnaatggg gtctccccnn cgangggggg 720
nnccannnc c

```

<210> 29
 <211> 822
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(822)
 <223> n = A,T,C or G

<400> 29
 actagtccag tgtggtggaa ttccattgtg ttggggncnc ttctatgant antnttagat 60
 cgctcanacc tcacancctc ccnacnangc ctataangaa nannaataga nctgtncnnt 120
 atntntacnc tcatanncct cnnnacccac tccctcttaa cccntactgt gcctatngcn 180
 tnnctantct ntgcgcgctn cnanccaccn gtggggccnac cncnngnatt ctonatctcc 240
 tcnccatntn gcctananta ngtncatacc ctatacctac nccaatgcta nnnctaancn 300
 tccatnantt annntaacta ccaactgacnt ngacttttcnc atnanctcct aatttgaatc 360
 tactctgact cccacngcct annnattagc ancntccccc nacnatntct caaccaaadc 420
 ntcaacaacc tatctanctg ttcnccaacc nttncctccg atccccnnac aacccccctc 480
 ccaaataccc nccacctgac ncctaaccn caccatcccg gcaagccnan ggnccatttan 540
 ccactgggaat cacnatngga naaaaaaaac ccnaactctc tanncncnat ctccctaana 600
 aatnctcctn naatttactn ncantnccat caanccacn tgaaacnnaa cccctgtttt 660
 tanatccctt ctttcgaaaa ccnacccttt annncccaac ctttngggcc ccccnctnc 720
 ccnaatgaag gncncccaat cnangaaacg nccntgaaaa ancnaggcna anannntccg 780
 canatcctat cccttanttn ggggncctt nccnngggcc cc 822

<210> 30
 <211> 787
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(787)
 <223> n = A,T,C or G

<400> 30
 cggccgcctg ctctggcaca tgccctcctga atggcatcaa aagtgatgga ctgcccattg 60
 ctagagaaga ccttctctcc tactgtcatt atggagccct gcagactgag ggctcccctt 120
 gtctgcagga tttgatgtct gaagtcgtgg agtgtggctt ggagctcctc atctacatna 180
 gctggaagcc ctggagggcc tctctcgcca gcctccccct tctctccaag ctctccangg 240
 acaccagggg ctccaggcag cccattatct ccagnangac atgggtgtttc tccacgcgga 300
 cccatggggc ctgnaaggcc aggtgtcctt ttgacaccat ctctcccgctc ctgcctggca 360
 ggccgtggga tccactantt ctanaacggg cgccaccncc gtgggagctc cagcttttgt 420
 tccnttaaat gaaggttaat tgcncgcttg gcgtaatcat nggtcanaac tntttcctgt 480
 gtgaaattgt ttntccctc ncnattoonc ncnacatacn aacccgggan cataaagtgt 540
 taaagcctgg gggtnccctn nngaanaaac tnaactcaat taattgcgtt ggctcatggc 600
 ccgctttccn ttcnggaaaa ctgtcntccc ctgcnttnnt gaatcgcca ccccccnggg 660
 aaaagcggtt tgcnttttng ggggntcctt ccncttcccc cctcnctaan cccctncgct 720
 cggctgttnc nggtngcggg gaangggnat nnnctccncc naagggggng agnnngntat 780
 ccccaaa 787

<210> 31
 <211> 799
 <212> DNA
 <213> Homo sapien

<220>

15

<221> misc_feature
 <222> (1)...(799)
 <223> n = A,T,C or G

<400> 31
 tttttttttt ttttttttggc gatgctactg ttttaattgca ggaggtgggg gtgtgtgtac 60
 catgtaccag ggctattaga agcaagaagg aaggagggag ggcagagcgc cctgctgagc 120
 aacaaaggac tcctgcagcc ttctctgtct gtctcttggc gcaggcacat ggggaggoct 180
 cccgcagggt gggggccacc agtccagggt tgggagcact acanggggtg ggagtgggtg 240
 gtggctggtt cnaatggcct gncacanatc cctacgattc ttgacacctg gatttcacca 300
 ggggaccttc tgttctccca nggnaacttc nttnatctcn aaagaacaca actgtttctt 360
 cngcanttct ggctgttcat ggaaagcaca ggtgtccnat ttnggctggg acttggtaca 420
 tatggttcgg gccacacctc ccntcnaaa aagtaattca ccccccccn ccntctnttg 480
 cctgggccct taantaccca caccggaact canttanitta ttcactctng gntgggcttg 540
 ntnatncn cctgaangcg ccaagttaga aggccacgcc gtnccnctc cccatagnan 600
 nttttnnct canctaatgc cccccnggc aacnatccaa tcccccccn tgggggcccc 660
 agcccanggc ccccgncctc ggnnnccngn cncgnantcc ccaggntctc ccantcngnc 720
 ccnnngcncc cccgcacgca gaacanaagg ntngagcnc cgcannnnnn nggttnncnac 780
 ctcgcccccc ccnnccngng 799

<210> 32
 <211> 789
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(789)
 <223> n = A,T,C or G

<400> 32
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 ttttnccnag ggcaggttta ttgacaacct cncgggacac aancaggctg gggacaggac 120
 ggcaacaggc tccggcggcg gcggcgggc ccctacctgc ggtaccaaata ntgcagcctc 180
 cgctcccgtc tgatnttcct ctgcagctgc aggatgccnt aaaacagggc ctgggccntn 240
 ggtgggcacc ctgggatttn aatttccacg ggcacaatgc ggtcgcanc cctcaccacc 300
 nattaggaat agtggtnnta ccncncccg ttggcncact ccccntggaa accacttntc 360
 gcggctcccg catctggtct taaaccttgc aaacnctggg gccctctttt tggttantnt 420
 nccngccaca atcatnactc agactggcnc gggctggccc caaaaaancn ccccaaaacc 480
 ggnccatgtc ttncgggggt tgcctgcnatn tncatcacct cccgggcnc naggncaac 540
 ccaaaagtgc ttngggcccn caaaaaanct ccggggggnc ccagtttcaa caaagtcatc 600
 ccccttggcc cccaaatcct cccccgntt nctgggtttg ggaaccacg cctctnnctt 660
 tggnnggcaa gntggntccc ccttcggggc cccggtgggc ccnctctaa ngaaaacncc 720
 ntctnnnca ccatcccc nngnnacgnc tancaangna tccctttttt tanaaacggg 780
 cccccnccg 789

<210> 33
 <211> 793
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(793)
 <223> n = A,T,C or G

<400> 33
 gacagaacat gttggatggt ggagcacctt totatacgac ttacaggaca gcagatgggg 60

16

aattcatggc	tgttgaggca	atanaacccc	agttctacga	gctgctgac	aaaggacttg	120
gactaaagtc	tgatgaactt	cccaatcaga	tgagcatgga	tgattggcca	gaaatgaana	180
agaagtttgc	agatgtatth	gcaaagaaga	cgaaggcaga	gtggtgtcaa	atctttgacg	240
gcacagatgc	ctgtgtgact	ccggttctga	cttttgagga	ggttgttcat	catgatcaca	300
acaangaacg	gggctcgttt	atcaccantg	aggagcagga	cgtgagcccc	cgccctgcac	360
ctctgctggt	aaacacccca	gccatccctt	ctttcaaaaag	ggatccacta	cttctagagc	420
ggncgccacc	gcggtggagc	tccagctttt	gttcccttta	gtgagggtta	attgcgcgct	480
tggcgtaatc	atggtcatan	ctgtttcctg	tgtgaaattg	ttatccgctc	acaattccac	540
acaacatacg	anocggaagc	atnaaatttt	aaagcctggg	ggtngcctaa	tgantgaact	600
nactcacatt	aattggcttt	gcgctcactg	cccgttttcc	agtccggaaa	acctgtcctt	660
gccagctgcc	nttaatgaat	cnggccaccc	cccggggaaa	aggcngtttg	cttnttgggg	720
cgccttcccc	gctttctcgc	ttcctgaant	ccttcccccc	ggtctttcgg	cttgcggcna	780
acggtatcna	cct					793

<210> 34
 <211> 756
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(756)
 <223> n = A,T,C or G

<400> 34						
gccgcgacgg	gcatgtacga	gcaactcaag	ggcgagtggga	accgtaaaag	ccccaatctt	60
ancaagtgcg	gggaanagct	gggtcgactc	aagctagtto	ttctggagct	caacttcttg	120
ccaaccacag	ggaccaagct	gaccaaacag	cagctaattc	tggcccgtga	catactggag	180
atcggggccc	aattggagcat	cctacgcaan	gacatccctt	ccttcgagcg	ctacatggcc	240
cagctcaaat	gctactactt	tgattacaan	gagcagctcc	ccgagtcagc	ctatatgcac	300
cagctcttgg	gcctcaacct	cctcttctctg	ctgtcccaga	accgggtggc	tgantnccac	360
acgganttgg	ancggctgcc	tgcccanga	catacanacc	aatgtctaca	tcnaccacca	420
gtgtcctgga	gcaatactga	tgganggcag	ctaccncaaa	gtnttccttg	ccnagggtaa	480
catccccgcg	cgagagctac	accttcttca	ttgacatcct	gctcgacact	atcaggggatg	540
aaaatcgcn	gggtgtctcca	gaaaggctnc	aanaanatcc	ttttcncctga	aggcccccg	600
atncnctagt	nctagaatcg	gcccggccatc	gcggtgganc	ctccaacctt	tcgttnccct	660
ttactgaggg	ttnattgccc	cccttggcgt	tatcatggtc	acnccngttn	cctgtgttga	720
aattnttaac	ccccacaaat	tccacgccna	cattng			756

<210> 35
 <211> 834
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(834)
 <223> n = A,T,C or G

<400> 35						
ggggatctct	anactnacct	gnatgcatgg	ttgtcgggtg	ggctcgctgtc	gatgaanatg	60
aacaggatct	tgcccttgaa	gctctcggct	gctgtnttta	agttgtctcag	tctgccgtca	120
tagtcagaca	cncctcttgg	caaaaaacan	caggatntga	gtcttgattt	cacctccaat	180
aatcttcngg	gctgtctgct	cggtgaactc	gatgacnang	ggcagctggg	tgtgtntgat	240
aaantccanc	angttctcct	tggtgacctc	cccttcaaa	ttgttccggc	cttcatcaaa	300
cttctnnaan	angannancc	canctttgtc	gagctggnat	ttgganaaca	cgtcactggt	360
ggaaactgat	cccaaattgg	atgtcatoca	tcgcctctgc	tgccctgcaa	aaacttgctt	420
ggcncaaate	cgactccccc	tccttgaaag	aagccnatca	cacccccctc	cctggactcc	480

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nncaangact	ctnccgctnc	cccntccnng	caggggttggt	ggcannccgg	gcccntgcgc	540
ttcttcagcc	agttcacnat	nttcacagc	ccctctgcc	gctgttntat	tccttggggg	600
ggaanccgtc	tctcccttcc	tgaannaact	ttgaccgtng	gaatagccgc	gcntcnccnt	660
acntnctggg	ccgggttcaa	antccctccn	ttgncnntcn	cctcggggcca	ttctggattt	720
nccnaacttt	ttccttcccc	cncctccnng	ngtttggntt	tttcatnggg	ccccactct	780
gctnttgcc	antccctg	gggcntntan	cncctctnt	ggtcccntng	ggcc	834

<210> 36
 <211> 814
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(814)
 <223> n = A,T,C or G

<400> 36						
cggnccgttt	ccngccgcgc	cccgtttcca	tgacnaaggg	tcccttcang	ttaaatacnn	60
cctagnaaac	attaatgggt	tgctctacta	atacatcata	cnaaccagta	agcctgccc	120
naacgccaac	tcaggccatt	cctaccaaag	gaagaaaggg	tggtctctcc	acccccgtg	180
ggaaaggcct	gccttgtaag	acaccacaat	ncggctgaat	ctnaagtctt	gtgttttact	240
aatggaaaaa	aaaaataaac	aanaggtttt	gttctcatgg	ctgcccaccg	cagcctggca	300
ctaaaaacanc	ccagcgctca	cttctgcttg	ganaaatatt	ctttgctctt	ttggacatca	360
ggcttgatgg	tatcactgcc	acntttccac	ccagctgggc	ncccttcccc	catntttgtc	420
antganctgg	aaggcctgaa	ncttagtctc	caaaagtctc	ngcccacaag	accggccacc	480
agggggangtc	ntttncagtg	gatctgcca	anantaccn	tatcatcnnt	gaataaaaag	540
gcccctgaac	ganatgcttc	cancancctt	taagaccat	aatcctngaa	ccatggtgcc	600
cttccgggtct	gatccnaaag	gaatgttctt	gggtcccant	ccctcctttg	ttnccttacgt	660
tgtnttgga	ccntgctngn	atnaccnaan	tgantcccc	ngaagcacc	tnccctggc	720
atttganttt	cntaaattct	ctgccctacn	nctgaaagca	cnattccctn	ggcncnnaan	780
gngaactca	agaaggtctn	ngaaaaacca	cncn			814

<210> 37
 <211> 760
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(760)
 <223> n = A,T,C or G

<400> 37						
gcatgctgct	cttcctcaaa	gttgcttcttg	ttgccataac	aaccaccata	ggtaaagcgg	60
gcgcagtgtt	cgctgaagg	gttgtagtac	cagcgcgga	tgctctcctt	gcagagtcct	120
gtgtctggca	ggctccacga	atgccctttg	tacttgggga	aatggatgcg	ctggagctcg	180
tanaanccac	tcgtgtattt	ttcacangca	gcctcctccg	aagcctcccg	gcagttgggg	240
gtgtcgtcac	actccactaa	actgtcgatn	cancagccca	ttgctgcagc	ggaactgggt	300
gggctgacag	gtgccagaac	acactggatn	ggcctttcca	tggaagggcc	tgggggaaat	360
cncctnanc	caaactgcct	ctcaaaggcc	accttgca	ccccgacag	ctagaaatgc	420
actcttcttc	ccaaaggtag	ttgttcttgt	tgcccaagca	ncctccanca	aacccaaanc	480
ttgcaaaatc	tgctccgtgg	gggtcatnnn	taccanggtt	ggggaaanaa	acccggcngn	540
ganccnccct	gtttgaatgc	naaggnaata	atcctcctgt	cttgcttggg	tggaanagca	600
caattgaact	gttaacnttg	ggccnggttc	cncnnggtg	gtctgaaact	aatcaccgtc	660
actggaaaaa	ggtangtgc	ttccttgaat	tcccaantt	cccctngntt	tggttnttt	720
ctcctctncc	ctaaaaatcg	tnttcccccc	cctanggcg			760

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<210> 38
 <211> 724
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(724)
 <223> n = A,T,C or G

<400> 38
 tttttttttt tttttttttt tttttttttt tttttaaaaa cccctcccat tgaatgaaaa 60
 ctccnaaat tgtccaaccc cctcnccaa atnnccattt cggggggggg gttccaaacc 120
 caaatattt ttgganttta aattaaatnt tnattngggg aanaanccaa atgtnaagaa 180
 aatttaaccc attatnaact taaatncctn gaaacccttg gnttccaaaa atttttaacc 240
 cttaaattccc tccgaaattg ntaanggaaa accaaattcn cctaaggctn tttgaagggtt 300
 ngatttaaac ccccttnant tnttttnacc cnngnctnaa ntatttngnt tccggtgttt 360
 tcctnttaan cntnggtaac tcccgntaat gaannnccct aanccaatta aaccgaattt 420
 tttttgaatt ggaaattccn ngggaattna ccgggggttt tcccnttttg gggccatncc 480
 cccnctttcg ggggttgggn ntaggttgaa tttttnnang nccccaaaaa ncccccaana 540
 aaaaaactcc caagnnttaa ttngaattnc ccccttccca ggccttttgg gaaaggnggg 600
 tttntggggg ccngggantt cnttcccccn ttncncccc cccccnggt aaanggttat 660
 ngnttttggg ttttgggcc ctnnanggac ctccgggatn gaaattaaat ccccggnccg 720
 gccg 724

<210> 39
 <211> 751
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(751)
 <223> n = A,T,C or G

<400> 39
 tttttttttt tttttctttg ctcacattta atttttattt tgattttttt taatgctgca 60
 caacacaata tttatttcat ttgtttcttt tatttcatth tatttgtttg ctgctgctgt 120
 tttattttatt tttactgaaa gtgagaggga acttttggg ccttttttcc tttttctgta 180
 ggccgcctta agctttctaa atttgaaca tctaagcaag ctgaanggaa aaggggggtt 240
 cgcaaaatca ctcgggggaa nggaaagggt gctttgttaa tcatgcccta tgggtgggtga 300
 ttaactgctt gtacaattac ntttacttt taattaattg tgctnaangc ttttaattana 360
 cttgggggtt ccttccccan accaaccnccn ctgacaaaaa gtgccngccc tcaaatnatg 420
 tcccggcnnt cnttgaaaca cacngcngaa ngttctcatt ntcccnccn caggtnaaaa 480
 tgaagggtta ccatntttta cncacctcc acntggcnnn gcctgaatcc tcnaaaancn 540
 cctcaanccn aattnctnng ccccggtcnc gentnngtcc cncccgggct ccgggaantn 600
 caccnccnga annnntnnc naacnaaatt ccgaaaatat tccnntcnc tcaattcccc 660
 cnnagactnt cctcnncnan cncaattttc ttttnntcac gaacnccnnc cnnaaatgn 720
 nnnnccctc cncnngtccn naatnccan c 751

<210> 40
 <211> 753
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(753)

<223> n = A,T,C or G

<400> 40

gtggtat	ctgtaagatc	aggtgttcct	ccctcgtagg	tttagaggaa	acaccctcat	60
agatgaaaac	ccccccgaga	cagcagcact	gcaactgcc	agcagccggg	gtaggagggg	120
cgccctatgc	acagctgggc	ccttgagaca	gcagggttc	gatgtcaggc	tcgatgtcaa	180
tggctctggaa	gcggcggctg	tacctgcgta	ggggcacacc	gtcagggccc	accaggaact	240
tctcaaagtt	ccaggcaacn	tcgttgcgac	acaccggaga	ccagggtgatn	agcttggggt	300
cggtcataaan	cgcggtggcg	tcgtcgcctg	gagctggcag	ggcctcccgc	aggaaggcna	360
ataaaaggty	cgcccccgca	ccgttcanc	cgcacttctc	naanaccatg	angttgggct	420
cnaaccacc	accannccgg	acttccttga	nggaattccc	aaatctcttc	gntcttgggc	480
ttctnctgat	gccctanctg	gttgcccn	atgccaanca	nccccaancc	ccggggtcct	540
aaanacccn	cctcctcntt	tcactctggg	tnttntcccc	ggacntgg	tcctctcaag	600
ggancccata	tctcnaccan	tactcacct	nccccccnt	gnnaccanc	cttctanngn	660
ttccncccg	ncctctggcc	cntcaanan	gcttnca	cctgggtctg	ccttcccccc	720
tncctatct	gnacccn	ttgtctcan	tnt			753

<210> 41

<211> 341

<212> DNA

<213> Homo sapien

<400> 41

actatatcca	tcacaacaga	catgcttcat	cccatagact	tcttgacata	gcttcaaatg	60
agtgaaccca	tccttgattt	atatacatat	atgttctcag	tattttggga	gcctttccac	120
ttctttaaac	cttgcttcat	atgaacactg	aaaataggaa	tttgtgaaga	gttaaaaagt	180
tatagcttgt	ttacgtagta	agtttttgaa	gtctacattc	aatccagaca	cttagttgag	240
tggttaaactg	tgatttttta	aaaatatcat	ttgagaatat	tctttcagag	gtatttttcat	300
ttttactttt	tgatttaattg	tgttttatat	attagggtag	t		341

<210> 42

<211> 101

<212> DNA

<213> Homo sapien

<400> 42

acttactgaa	tttagttctg	tgctcttcct	tatttagtgt	tgtatcataa	atactttgat	60
gtttcaaaca	ttctaaataa	ataattttca	gtggcttcat	a		101

<210> 43

<211> 305

<212> DNA

<213> Homo sapien

<400> 43

acatctttgt	tacagtctaa	gatgtgttct	taaatcacca	ttccttctctg	gtcctcaccc	60
tccaggggtg	tctcacactg	taattagagc	tattgaggag	tctttacagc	aaattaagat	120
tcagatgcct	tgctaagtct	agagttctag	agttatgttt	cagaaagtct	aagaaaccca	180
cctcttgaga	ggtcagtaaa	gaggacttaa	tatttcatat	ctacaaaatg	accacaggat	240
tgatacaga	acgagagtta	tcctggataa	ctcagagctg	agtacctgcc	cgggggccgc	300
tcgaa						305

<210> 44

<211> 852

<212> DNA

<213> Homo sapien

<220>

20

<221> misc_feature
 <222> (1)...(852)
 <223> n = A,T,C or G

<400> 44
 acataaatat cagagaaaag tagtctttga aatatttacg tccaggaggt ctttgtttct 60
 gattatttgg tgtgtgtttt ggtttgtgtc caaagtattg gcagcttcag ttttcatttt 120
 ctctccatcc tcgggcattc ttcccaaatt tatataccag tcttcgtcca tccacacgct 180
 ccagaatttc tctttttag tagtatctca tagctcggct gagcttttca taggtcatgc 240
 tgctgttgtt cttcttttta ccccatagct gagccactgc ctctgatttc aagaacctga 300
 agacgccctc agatcgggtc tccattttta ttaatcctgg gttcttgtct gggttcaaga 360
 ggatgtcgcg gatgaattcc cataagttag tccctctcgg gttgtgcttt ttgggtgtggc 420
 acttggcagg ggggtcttgc tcccttttca tatcaggtag ctctgcaaca ggaaggtgac 480
 tgggtggtgt catggagatc tgagcccggc agaaagtatt gctgtccaac aaatctactg 540
 tgctaccata gttgggtgca tataaatagt tctngtcttt ccagggtgtc atgatggaag 600
 gctcagtttg ttcagttctg acaatgacat tgtgtgtgga ctggaacagg tcactactgc 660
 actggccgtt ccacttcaga tgctgcaagt tgctgtagag gagntgcccc gccgtccctg 720
 ccgcccgggt gaactcctgc aaactcatgc tgcaaagggt ctgcgcgttg atgtcgaact 780
 cntggaaagg gatacaattg gcatccagct ggttggtgtc caggaggtga tggagccact 840
 cccacacctg gt 852

<210> 45
 <211> 234
 <212> DNA
 <213> Homo sapien

<400> 45
 acaacagacc cttgctcgct aacgacctca tgctcatcaa gttggacgaa tccgtgtccg 60
 agtctgacac catccggagc atcagcattg cttcgcagtg cctaccgcg gggaactctt 120
 gcctcgtttc tggctgggggt ctgctggcga acgacagaat gcctaccgtg ctgcagtgcg 180
 tgaacgtgtc ggtggtgtct gaggaggtct gcagtaagct ctatgaccgc ctgt 234

<210> 46
 <211> 590
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(590)
 <223> n = A,T,C or G

<400> 46
 actttttatt taaatgttta taaggcagat ctatgagaat gatagaaaac atggtgtgta 60
 atttgatagc aatatttttg agattacaga gtttttagtaa ttaccaatta cacagttaaa 120
 aagaagataa tatattccaa gcanatacaa aatatctaata gaaagatcaa ggcaggaaaa 180
 tgantataac taattgacaa tggaaaatca attttaatgt gaattgcaca ttatccttta 240
 aaagctttca aaanaanaa ttattgcagt ctanttaatt caaacagtg taaatggtat 300
 caggataaan aactgaaggg canaaagaat taattttcac ttcattgtaac ncacccanat 360
 ttacaatggc ttaaattgcan ggaaaaagca gtggaagtag ggaagtantc aaggtctttc 420
 tggctctctaa tctgccttac tcttgggtg tggtcttgat cctctggaga cagctgccag 480
 ggctcctgtt atatccacaa tcccagcagc aagatgaagg gatgaaaaag gacacatgct 540
 gccttccttt gaggagactt catctcactg gccaacactc agtcacatgt 590

<210> 47
 <211> 774
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(774)
 <223> n = A,T,C or G

<400> 47
 acaagggggc ataatgaagg agtgggggana gatttttaag aaggaaaaaa aacgaggccc 60
 tgaacagaat ttctctgnac aacgggggctt caaaataatt ttcttgggga ggttcaagac 120
 gcttcactgc ttgaaactta atgggatgtg ggacanaatt ttctgtaatg accctgaggg 180
 cattacagac gggactcttg gaggaaggat aaacagaaag gggacaaagg ctaatcccaa 240
 aacatcaaag aaaggaaggt ggcgtcatac ctcccagcct acacagttct ccagggtct 300
 cctcatccct ggaggacgac agtggaggaa caactgacca tgtccccagg ctctgtgtg 360
 ctggctcctg gtcttcagcc cccagctctg gaagcccacc ctctgtctgat cctgcgtggc 420
 ccacactcct tgaacacaca tccccaggtt atatttctgg acatggctga acctcctatt 480
 cctacttccg agatgccttg ctccctgcag cctgtcaaaa tcccactcac cctccaaacc 540
 acggcatggg aagocctttct gacttgccctg attactccag catcttggaa caatccctga 600
 ttccccactc cttagaggca agataggggt gttaagagta gggctggacc acttggagcc 660
 aggctgctgg cttcaaattt tggctcattt acgagctatg ggaccttggg caagtnatct 720
 tcacttctat gggcntcatt ttgttctacc tgcaaaatgg gggataataa tagt 774

<210> 48
 <211> 124
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(124)
 <223> n = A,T,C or G

<400> 48
 canaaattga aattttataa aaaggcattt ttctcttata tccataaaat gatataattt 60
 ttgcaantat anaaatgtgt cataaattat aatgttcctt aattacagct caacgcaact 120
 tgg 124

<210> 49
 <211> 147
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(147)
 <223> n = A,T,C or G

<400> 49
 gcgatgcta ctattttatt gcaggaggtg ggggtgtttt tattattctc tcaacagctt 60
 tgtggctaca ggtggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt 120
 ttagggcacc catatcccaa gcantgt 147

<210> 50
 <211> 107
 <212> DNA
 <213> Homo sapien

<400> 50
 acattaaatt aataaaagga ctgttgggggt tctgctaaaa cacatggctt gatatatgtc 60

22

atggtttgag gttaggagga gttaggcata tgttttggga gaggggt 107

<210> 51
 <211> 204
 <212> DNA
 <213> Homo sapien

<400> 51
 gtcctaggaa gtctagggga cacacgactc tgggggtcacg gggccgacac acttgacagg 60
 cggaagaa aggcagagaa gtgacaccgt cagggggaaa tgacagaaag gaaaatcaag 120
 gccttgcaag gtcagaaagg ggactcaggg cttccaccac agccctgccc caattggcca 180
 cctccctttt gggaccagca atgt 204

<210> 52
 <211> 491
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(491)
 <223> n = A,T,C or G

<400> 52
 acaaagataa catttatctt ataacaaaaa tttgatagtt tttaaaggta gtattgtgta 60
 gggatatttc caaaagacta aagagataac tcaggtaaaa agttagaaat gtataaaaca 120
 ccatcagaca ggttttttaa aaacaacata ttacaaaatt agacaatcat ccttaaaaaa 180
 aaaacttctt gtatcaattt cttttgttca aaatgactga cttaantatt tttaaatatt 240
 tcanaaacac ttcctcaaaa attttcaana tggtagcttt canatgtnc ctcagtccca 300
 atgttgctca gataaataaa tctcgtgaga acttaccacc caccacaagc tttctggggc 360
 atgcaacagt gtcttttctt tnttttttct tttttttttt ttacaggcac agaaactcat 420
 caattttatt tggataacaa aggtctcca aatttatattg aaaaataaat ccaagttaat 480
 atcactcttg t 491

<210> 53
 <211> 484
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(484)
 <223> n = A,T,C or G

<400> 53
 acataattta gcagggctaa ttaccataag atgctattta ttaanaggtn tatgatctga 60
 gtattaacag ttgctgaagt ttggatattt tatgcagcat tttctttttg ctttgataac 120
 actacagaac ccttaaggac actgaaaatt agtaagtaaa gttcagaaac attagctgct 180
 caatcaaato tctacataac actatagtaa ttaaaacggt aaaaaaaagt gttgaaatct 240
 gcaactagtat anaccgctcc tgtcaggata anactgcttt ggaacagaaa gggaaaaanc 300
 agctttgant ttcctttgtc tgatangagg aaaggctgaa ttaccttggt gcctctccct 360
 aatgattggc aggtcnggta aatnccaaaa catattccaa ctcaacactt cttttccncg 420
 tanccttgant ctgtgtattc caggancagg cggatggaat gggccagccc nccgatgttc 480
 cant 484

<210> 54
 <211> 151
 <212> DNA

<213> Homo sapien

<400> 54

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actaaacctc gtgcttgtga actccataca gaaaacgggtg ccatccctga acacggctgg      60
ccactgggta tactgctgac aaccgcaaca acaaaaacac aaatccttgg cactggctag      120
tctatgtcct ctcaagtgcc tttttgtttg t                                     151
```

<210> 55

<211> 91

<212> DNA

<213> Homo sapien

<400> 55

```
acctggcttg tctccgggtg gttcccggcg cccccacggg tccccagaac ggacactttc      60
gccctccagt ggatactcga gccaaagtgg t                                     91
```

<210> 56

<211> 133

<212> DNA

<213> Homo sapien

<400> 56

```
ggcggatgtg cggttggttat atacaaatat gtcattttat gtaagggact tgagtatact      60
tggatttttg gtatctgtgg gttgggggga cgggccagga accaataccc catggatacc      120
aagggacaac tgt                                     133
```

<210> 57

<211> 147

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(147)

<223> n = A,T,C or G

<400> 57

```
actctggaga acctgagccg ctgctccgcc tctgggatga ggtgatgcan gcngtggcgc      60
gactgggagc tgagcccttc ctttgcgcc tgcctcagag gattgttgcc gacntgcana      120
tctcantggg ctggatncat gcagggt                                     147
```

<210> 58

<211> 198

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(198)

<223> n = A,T,C or G

<400> 58

```
acagggatat aggtttnaag ttattgtnat tgtaaaatac attgaatttt ctgtatactc      60
tgattacata catttatcct ttaaaaaaga tgtaaactctt aatttttatg ccatctatta      120
atttaccaat gagttacctt gtaaatgaga agtcatgata gcactgaatt ttaactagtt      180
ttgacttcta agtttggt                                     198
```

<210> 59

24

<211> 330
 <212> DNA
 <213> Homo sapien

<400> 59
 acaacaaatg gggtgtgagg aagtcttatac agcaaaactg gtgatggcta ctgaaaagat 60
 ccattgaaaa ttatcattaa tgatttttaa tgacaagtta tcaaaaactc actcaatttt 120
 cacctgtgct agcttgctaa aatgggagtt aactctagag caaatatagt atcttctgaa 180
 tacagtcaat aaatgacaaa gccagggcct acagggtggt tccagacttt ccagacccag 240
 cagaaggaat ctattttatc acatggatct ccgtctgtgc tcaaaatacc taatgatatt 300
 tttcgtcttt attggacttc tttgaagagt 330

<210> 60
 <211> 175
 <212> DNA
 <213> Homo sapien

<400> 60
 accgtgggtg ccttctacat tcctgacggc tccttcacca acatctggtt ctacttcggc 60
 gtcgtgggct ccttcctctt catcctcatc cagctgggtg tgctcatcga ctttgccgac 120
 tcctggaacc agcgggtggc gggcaaggcc gaggagtgcg attcccgtgc ctggt 175

<210> 61
 <211> 154
 <212> DNA
 <213> Homo sapien

<400> 61
 accccacttt tcctcctgtg agcagtctgg acttctcact gctacatgat gagggtgagt 60
 ggttgttgct ctccaacagt atcctcccct ttccggatct gctgagccgg acagcagtgc 120
 tggactgcac agccccgggg ctccacattg ctgt 154

<210> 62
 <211> 30
 <212> DNA
 <213> Homo sapien

<400> 62
 cgctcgagcc ctatagtgag tcgtattaga 30

<210> 63
 <211> 89
 <212> DNA
 <213> Homo sapien

<400> 63
 acaagtcatt tcagcaccct ttgctcttca aaactgacca tcttttatat ttaatgcttc 60
 ctgtatgaat aaaaatgggt atgtcaagt 89

<210> 64
 <211> 97
 <212> DNA
 <213> Homo sapien

<400> 64
 accggagtaa ctgagtcggg acgctgaatc tgaatccacc aataaataaa ggttctgcag 60
 aatcagtgc tccaggattg gtccttgat ctgggggt 97

25

<210> 65
 <211> 377
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(377)
 <223> n = A,T,C or G

<400> 65
 acaacaanaa ntcccttctt taggccactg atggaaacct ggaaccccct tttgatggca 60
 gcatggcgctc ctaggccttg acacagcggc tggggtttgg gctntcccaa accgcacacc 120
 ccaaccctgg tctaccaca nttctggcta tgggctgtct ctgccactga acatcagggt 180
 tcggtcataa natgaaatcc caanggggac agagggtcagt agaggaagct caatgagaaa 240
 ggtgctgttt gctcagccag aaaacagctg cctggcattc gccgctgaac tatgaaccgg 300
 tgggggtgaa ctaccccan gaggaatcat gcctgggcga tgcaanggtg ccaacaggag 360
 gggcgggagg agcatgt 377

<210> 66
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 66
 acgcctttcc ctacagaattc agggaagaga ctgtcgccctg ccttcctccg ttgttgcggtg 60
 agaaccctgt tgcctcttcc caccatatcc accctcgctc catctttgaa ctcaaacaag 120
 aggaactaac tgcaccctgg tcctctcccc agtccccagt tcaccctcca tccctcacct 180
 tcctccactc taagggatat caacactgcc cagcacaggg gccctgaatt tatgtgggtt 240
 ttatatattt ttttaataaga tgcactttat gtcatttttt aataaagtct gaagaattac 300
 tgttt 305

<210> 67
 <211> 385
 <212> DNA
 <213> Homo sapien

<400> 67
 actacacaca ctccacttgc ctttgtgaga cactttgtcc cagcacttta ggaatgctga 60
 ggtcggacca gccacatctc atgtgcaaga ttgccagca gacatcaggc ctgagagtgc 120
 cccttttaaa aaaggggact tgcttaaaaa agaagtctag ccacgattgt gtagagcagc 180
 tgtgctgtgc tggagattca cttttgagag agttctcctc tgagacctga tcttttagagg 240
 ctgggcagtc ttgcacatga gatggggctg gtctgatctc agcactcctt agtctgcttg 300
 cctctcccag ggccccagcc tggccacacc tgcttacagg gcactctcag atgcccatac 360
 catagtttct gtgctagtgg accgt 385

<210> 68
 <211> 73
 <212> DNA
 <213> Homo sapien

<400> 68
 acttaaccag atatatTTTT accccagatg gggatattct ttgtaaaaaa tgaaaataaa 60
 gtttttttaa tgg 73

<210> 69
 <211> 536
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(536)

<223> n = A,T,C or G

<400> 69

actagtcacag	tgtgggtgaa	ttccattgtg	ttggggggtc	tcaccctcct	ctcctgcagc	60
tccagctttg	tgctctgcct	ctgaggagac	catggcccag	catctgagta	ccctgctgct	120
cctgctggcc	accctagctg	tggccctggc	ctggagcccc	aaggaggagg	ataggataat	180
cccgggtggc	atctataacg	cagacctcaa	tgatgagtg	gtacagcgtg	cccttcactt	240
cgccatcagc	gagtataaca	aggccaccaa	agatgactac	tacagacgtc	cgctgcgggt	300
actaagagcc	aggcaacaga	ccgttggggg	ggtgaattac	ttcttcgacg	tagagggtgg	360
ccgaaccata	tgtaccaagt	cccagcccaa	cttggacacc	tgtgccttcc	atgaacagcc	420
agaactgcag	aagaaacagt	tgtgctcttt	cgagatctac	gaagttccct	ggggagaaca	480
gaangtcctt	gggtgaaatc	caggtgtcaa	gaaatcctan	ggatctgttg	ccaggc	536

<210> 70

<211> 477

<212> DNA

<213> Homo sapien

<400> 70

atgaccacct	acagggggcc	tctcagccct	cctaattgacc	tccggcctag	ccatgtgatt	60
tcacttccac	tcataaacgc	tcctcatact	aggcctacta	accaacacac	taaccatata	120
ccaatgatgg	cgcgatgtaa	cacgagaaa	gacataccaa	ggccaccaca	caccacctgt	180
ccaaaaaggc	cttcgatagc	ggataatcct	atattattacc	tcagaagttt	ttttcttcgc	240
agggatTTTT	ctgagccttt	taccactcca	gcctagcccc	tcccccccaa	ctaggagggc	300
actggccccc	aacaggcatc	accccgctaa	atccctctaga	agtccctctc	ctaaacacat	360
ccgtattact	cgcctcagga	gtatcaatca	cctgagctca	ccatagtcta	atagaaaaca	420
accgaaacca	aattattcaa	agcactgctt	attacaattt	tactgggtct	ctattttt	477

<210> 71

<211> 533

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(533)

<223> n = A,T,C or G

<400> 71

agagctatag	gtacagtgtg	atctcagctt	tgcaaacaca	ttttctacat	agatagtact	60
aggatattaat	agatatgtaa	agaaagaaat	cacaccatta	ataatggtaa	gattgggttta	120
tgtgatttta	gtggtatttt	tggcaccctt	atatatgttt	tccaaacttt	cagcagtgat	180
attattttcca	taacttaaaa	agtgagtttg	aaaaagaaaa	tctccagcaa	gcatctcatt	240
taaataaagg	tttgtcatct	ttaaaaatac	agcaatatgt	gactttttta	aaaagctgtc	300
aaatagggtgt	gaccctacta	ataattatta	gaaatacatt	taaaaacatc	gagtacctca	360
agtcagtttg	ccttgaaaaa	tatcaaatat	aactcttaga	gaaatgtaca	taaaagaatg	420
cttcgtaatt	ttggagtang	aggttccctc	ctcaattttg	tattttttaa	aagtacatgg	480
taaaaaaaaa	aattcacac	agtatataag	gctgtaaaaa	gaagaattct	gcc	533

<210> 72

<211> 511

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(511)
 <223> n = A,T,C or G

<400> 72
 tattacggaa aaacacacca cataattcaa ctancaaaga anactgcttc agggcgtgta 60
 aaatgaaaagg cttccaggca gttatctgat taaagaacac taaaagaggg acaaggctaa 120
 aagccgcagg atgtctacac tatancaggc gctatctggg ttggctggag gagctgtgga 180
 aaacatggan agattgggtgc tgganacgc cgtggctatt cctcattggt attacanagt 240
 gaggttctct gtgtgcccac tggtttgaaa accgttctnc aataatgata gaatagtaca 300
 cacatgagaa ctgaaatggc ccaaaccag aaagaaagcc caactagatc ctcagaanac 360
 gcttctaggg acaataaccg atgaagaaaa gatggcctcc ttgtgcccc gtctgttatg 420
 atttctctcc attgcagcna naaaccggtt cttctaagca aacncagggtg atgatggcna 480
 aaatacacccc cctcttgaag naccnggagg a 511

<210> 73
 <211> 499
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(499)
 <223> n = A,T,C or G

<400> 73
 cagtgccagc actgggtgcc gtaccagtac caataacagt gccagtgcc gtgccagcac 60
 cagtgggtggc ttcagtgtgt gtgccagcct gaccgccact ctcacatttg ggctcttcgc 120
 tggccttggt ggagctgggt ccagcaccag tggcagctct ggtgcctgtg gtttctccta 180
 caagtgaagt tttagatatt gttaatcctg ccagtctttc tcttcaagcc aggggtgcac 240
 ctcagaaaacc tactcaacac agcactctag gcagccacta tcaatcaatt gaagttgaca 300
 ctctgcatta aatctatttg ccatttctga aaaaaaaaaa aaaaaaaggg cggccgctcg 360
 antctagagg gcccgtttaa acccgctgat cagcctcgac tgtgccttct anttgccagc 420
 catctgttgt ttgcccctcc cccngtgcct tccttgaccc tggaaagtgc cactcccact 480
 gtccttttct aantaaaat 499

<210> 74
 <211> 537
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(537)
 <223> n = A,T,C or G

<400> 74
 tttcatagga gaacacactg aggagatact tgaagaattt ggattcagcc gcgaagagat 60
 ttatcagctt aactcagata aaatcattga aagtaataag gtaaaagcta gtctctaact 120
 tccaggccca cggctcaagt gaatttgaat actgcattta cagtgtagag taacacataa 180
 cattgtatgc atggaaacat ggaggaacag tattacagtg tcctaccact ctaatcaaga 240
 aaagaattac agactctgat tctacagtga tgattgaatt ctaaaaatgg taatcattag 300
 ggcttttgat ttataanact ttgggtactt atactaaatt atggtagtta tactgccttc 360
 cagtttgctt gatataattt ttgatattaa gattcttgac ttatattttg aatgggttct 420
 actgaaaaan gaatgatata ttcttgaaga catcgatata catttattta cactcttgat 480
 tctacaatgt agaaaatgaa ggaaatgccc caaattgtat ggtgataaaa gtcccggt 537

```

<210> 75
<211> 467
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G

<400> 75
caaanacaat tggtcaaaag atgcaaatag tacactactg ctgcagctca caaacacctc      60
tgcataattac acgtacctcc tccgtgctcct caagtagtgt ggtctatattt gccatcatca      120
cctgctgtct gcttagaaga acggctttct gctgcaangg agagaaatca taacagacgg      180
tggcacaagg aggccatctt ttctcatcgt gttattgtcc ctagaagcgt cttctgagga      240
tctagttggg ctttctttct gggtttgggc catttcantt ctcatgtgtg tactattcta      300
tcattattgt ataacgggtt tcaaaccngt gggcacncag agaacctcac tctgtaataa      360
caatgaggaa tagccacggg gatctccagc accaaatctc tccatgttnt tccagagctc      420
ctccagccaa cccaaatagc cgctgctatn gtgtagaaca tccctgn                      467

<210> 76
<211> 400
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

<400> 76
aagctgacag cattcgggcc gagatgtctc gctccgtggc cttagctgtg ctgcgctac      60
tctctctttc tggcctggag gctatccagc gtactccaaa gattcagggt tactcacgtc      120
atccagcaga gaatggaaag tcaaatttcc tgaattgcta tgtgtctggg ttctatccat      180
ccgacattga agttgactta ctgaagaatg gagagagaat tgaaaaagtg gagcattcag      240
acttgtcttt cagcaaggac tgggtctttct atctcttgta ctacactgaa ttcaccccca      300
ctgaaaaaga tgagtatgcc tgccgtgtga accatgtgac tttgtcacag cccaagatng      360
ttnagtggga tcganacatg taagcagcan catgggaggt                      400

<210> 77
<211> 248
<212> DNA
<213> Homo sapien

<400> 77
ctggagtgcc ttgggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcacct      60
ccagctgccc cggcggggga tgcgaggctc ggagcaccct tgcccggctg tgattgctgc      120
caggcaactgt tcatctcagc ttttctgtcc ctttgcctcc ggcaagcgct tctgctgaaa      180
gttcatatct ggagcctgat gtcttaacga ataaaggtcc catgctccac ccgaaaaaaaa      240
aaaaaaaaa
                                         248

<210> 78
<211> 201
<212> DNA
<213> Homo sapien

<400> 78

```

```

actagtccag tgtggtggaa ttccattgtg ttggggcccaa cacaatggct acctttaaca      60
tcacccagac cccgccctgc ccgtagccca cgtgctgct aacgacagta tgatgcttac      120
tctgctactc ggaaactatt tttatgtaat taatgtatgc tttcttggtt ataaatgcct      180
gatttaaaaa aaaaaaaaaa a

```

```

<210> 79
<211> 552
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(552)
<223> n = A,T,C or G

```

```

<400> 79
tccttttgtt aggtttttga gacaacccta gacctaaact gtgtcacaga cttctgaatg      60
tttaggcagt gctagtaatt tcctcgtaat gattctgtta ttactttcct attctttatt      120
cctctttctt ctgaagatta atgaagttga aaattgaggt ggataaatac aaaaaggtag      180
tgtgatagta taagtatcta agtgcagatg aaagtgtgtt atatatatcc attcaaaatt      240
atgcaagtta gtaattactc aggtttaact aaattacttt aatatgctgt tgaacctact      300
ctgttccttg gctagaaaaa attataaaca ggactttgtt agtttgggaa gccaaattga      360
taatatctta tgttctaaaa gttgggctat acataaanta tnaagaaata tgggaatttta      420
ttcccaggaa tatgggggttc atttatgaat antacccggg anagaagttt tgantnaaac      480
cngttttggt taatacgtta atatgtcctn aatnaacaag gcntgactta tttccaaaaa      540
aaaaaaaaaa aa

```

```

<210> 80
<211> 476
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

```

```

<400> 80
acagggattt gagatgctaa ggccccagag atcgttttgat ccaaccctct tatttttcaga      60
ggggaaaaatg gggcctagaa gttacagagc atctagctgg tgcgctggca cccctggcct      120
cacacagact cccgagtagc tgggactaca ggcacacagt cactgaagca ggccctgttt      180
gcaattcacg ttgccacctc caacttaaac attcttcata tgtgatgtcc ttagtcacta      240
aggttaaact ttcccaccca gaaaaggcaa cttagataaa atcttagagt actttcatac      300
tcttctaagt cctcttccag cctcactttg agtcctcctt gggggttgat aggaantntc      360
tcttggcctt ctcaataaaa tctctatcca tctcatgttt aatttgggtac gcntaaaaat      420
gctgaaaaaa ttaaaatgtt ctggtttcnc tttaaaaaaa aaaaaaaaaa aaaaaa      476

```

```

<210> 81
<211> 232
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

```

```

<400> 81

```

30

```

tttttttttg tatgcctntcn ctgtggngtt attgtttgctg ccaccctgga ggagcccagt      60
ttcttctgta tctttctttt ctgggggatc ttcttggctc tgcccctcca ttcccagcct      120
ctcatcccca tcttgcactt ttgctagggt tggaggcgct ttcttggtag cccctcagag      180
actcagtcag cggaataag tcttaggggt ggggggtgtg gcaagccggc ct                232

```

```

<210> 82
<211> 383
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

```

```

<400> 82
aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc      60
agtaccagta ccaataacat gccagtgccg gtgccagcac cagtgggtggc ttcagtgcctg      120
gtgccagcct gaccgccact ctcacatttg ggctcttcgc tggccttggg ggagctgggtg      180
ccagcaccag tggcagctct ggtgcctgtg gtttctocta caagtgagat tttagatatt      240
gttaatcctg ccagtccttc tcttcaagcc aggggtgcac ctcagaaacc tactcaacac      300
agcactctng gcagccacta tcaatcaatt gaagttgaca ctctgcatta aatctatttg      360
ccatttcaaa aaaaaaaaaa aaa                383

```

```

<210> 83
<211> 494
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(494)
<223> n = A,T,C or G

```

```

<400> 83
accgaattgg gaccgctggc ttataagcga tcatgtcctc cagtattacc tcaacgagca      60
gggagatcga gtctatacgc tgaagaaatt tgaccgatg ggacaacaga cctgctcagc      120
ccatcctgct cggttctccc cagatgacaa atactctcga caccgaatca ccatcaagaa      180
acgcttcaag gtgctcatga ccagcaacc gcgcctgtc ctctgagggt ccttaaactg      240
atgtcttttc tgccacctgt taccctcgg agactccgta accaaactct tcggactgtg      300
agccctgatg cctttttgcc agccatactc tttggcntcc agtctctcgt ggcgattgat      360
tatgcttggt tgaggcaatc atggtggcat caccatnaa gggaacacat ttganttttt      420
tttncatat tttaaattac naccagaata ntccagaata aatgaattga aaaactctta      480
aaaaaaaaaa aaaa                494

```

```

<210> 84
<211> 380
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(380)
<223> n = A,T,C or G

```

```

<400> 84
gctggtagcc tatggcgtgg ccacggangg gctcctgagg cacgggacag tgacttccca      60
agtatcctgc gccgcgtctt ctaccgtccc tacctgcaga tcttcgggca gattccccag      120

```



```

gaggacatgg acgtggccct catggagcac agcaactgct cgtcggagcc cggcttctgg 180
gcacacccctc ctggggccca ggcgggcacc tgcgtctccc agtatgccaa ctggctgggtg 240
gtgctgctcc tcgtcatctt cctgctcgtg gccaacatcc tgctggtcac ttgtcattg 300
ccatgttcag ttacacattc ggcaaagtac agggcaacag cnatctctac tgggaaggcc 360
agcgttnccg cctcatccg 380

```

```

<210> 85
<211> 481
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(481)
<223> n = A,T,C or G

```

```

<400> 85
gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggcctctcgc ttcataccgc 60
tnccatcgct atactgtagg ttggccacca cctcctgcac cttggggcgg ctaatatcca 120
ggaaactctc aatcaagtca ccgtcnatna aacctgtggc tggttctgtc ttccgctcgg 180
tgtgaaagga tctccagaag gagtgtctga tcttccccac acttttgatg actttattga 240
gtcgattctg catgtccagc aggaggttgt accagctctc tgacagttag gtcaccagcc 300
ctatcatgcc nttgaacgtg ccgaagaaca ccgagccttg tgtggggggg gnagtctcac 360
ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggngaa 420
aaagaacacc tcctggaagt gctngccgct cctcgtcctt tggtggnngc gcntnccttt 480
t 481

```

```

<210> 86
<211> 472
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

```

```

<400> 86
aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgctg agaattcatt 60
acttgaaaaa gcaacttnaa gcctggacac tgggtattaaa attcacaata tgcaacactt 120
taaacagtgt gtcaatctgc tcccttactt tgatcatcacc agtctgggaa taaggggatg 180
ccctattcac acctgttaaa agggcgctaa gcatttttga ttcaacatct ttttttttga 240
cacaagtccg aaaaaagcaa aagtaaacag ttnttaattt gttagccaat tcaactttctt 300
catgggacag agccatttga tttaaaaagc aaattgcata atattgagct ttggggagctg 360
atatntgagc ggaagantag cctttctact tcaccagaca caactccttt catattggga 420
tgtnnacnaa agttatgtct cttacagatg ggatgctttt gtggcaattc tg 472

```

```

<210> 87
<211> 413
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(413)
<223> n = A,T,C or G

```

```

<400> 87

```

32

```

agaaccaggt atctctnaaa acaacctctc atacctgtg gacctaat tgtgtgctg      60
tgtgtgtgcg cgcataattat atagacaggc acatcttttt tacttttgta aaagcttatg    120
cctcttttgt atctatatct gtgaaagttt taatgatctg ccataatgtc ttggggacct    180
ttgtcttctg tgtaaagtgt actagagaaa acacctatnt tatgagtcaa tctagttingt    240
tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc cttgactagg    300
ggggacaaaag aaaagcanaa ctgaacatna gaaacaattn cctggtgaga aattncataa    360
acagaaattg ggtngtatat tgaaananng catcattnaa acgttttttt ttt          413

```

```

<210> 88
<211> 448
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(448)
<223> n = A,T,C or G

```

```

<400> 88
cgcagcgggt cctctctatc tagctccagc ctctcgctg ccccaactccc cgcgtcccgc      60
gtcctagccn accatggccg ggcccctgcg cgcccgcgtg ctccctgtgg ccacccctggc    120
cgtggccctg gccgtgagcc ccgcggcccg ctccagctcc ggcaagccgc cgcgcctggt    180
gggaggccca tggaccccgc gtggaagaag aagggtgtgc gcgtgcactg gactttgccc    240
tcggcnanta caacaaaccc gcaacnactt ttaccnagcn cgcgtgcag gttgtgccc    300
cccaancaa ttgttactng gggtaanata ttcttggaag ttgaacctgg gccaaacnng    360
tttaccagaa ccnagccaat tngaacaatt ncccctccat aacagcccct tttaaaaagg    420
gaancantcc tgntcttttc caaat      448

```

```

<210> 89
<211> 463
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

```

```

<400> 89
gaattttgtg cactggccac tgtgatggaa ccattgggccc aggatgcttt gagtttatca      60
gtagtgattc tgccaaagtt ggtgttgtaa catgagtatg taaaatgtca aaaaatttagc    120
agagggtctag gtctgcatat cagcagacag tttgtccgtg tattttgtag ccttgaagtt    180
ctcagtgaca agttnnntct gatgcgaagt tctnattcca gtgttttagt cctttgcac    240
tttnatgttn agacttgccct ctntnaaatt gcttttgtnt tctgcaggta ctatctgtgg    300
tttaacaaaa tagaannact tctctgcttn gaanatttga atatcttaca tctnaaaatn    360
aattctctcc ccatannaaa acccangccc ttgggganaat ttgaaaaang gntccttcnn    420
aattcnana anttcagntn tcatacaaca naacngganc ccc          463

```

```

<210> 90
<211> 400
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

```

```

<400> 90
agggattgaa ggtctntntt actgtcggac tgttcancca ccaactctac aagttgctgt      60
cttccactca ctgtctgtaa gcntnttaac ccagactgta tcttcataaa tagaacaaat      120
tcttcaccag tcacatcttc taggaccttt ttggattcag ttagtataag ctcttccact      180
tcctttgtta agacttcata tggtaaagtc ttaagttttg tagaaaggaa ttttaattgct      240
cgttctctaa caatgtcctc tccttgaagt atttggctga acaaccacc tnaagtcctt      300
ttgtgcatcc attttaataa tacttaatag ggcattggtn cactaggtta aattctgcaa      360
gagtcactgt tctgcaaaag ttgcgttagt atatctgcc a

```

```

<210> 91
<211> 480
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(480)
<223> n = A,T,C or G

```

```

<400> 91
gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact      60
ggtctacccc acatgggagc agcatgccgt agntatataa ggtcattccc tgagtcagac      120
atgcctcttt gactaccgtg tgccagtgtt ggtgattctc acacacctcc nncgcctctt      180
tgtggaaaaa ctggcacttg nctggaacta gcaagacatc acttacaaat tcacccacga      240
gacacttgaa aggtgtaaca aagcgactct tgcattgctt tttgtccctc cggcaccagt      300
tgtcaatact aacccgctgg ttgcctcca tcacatttgt gatctgtagc tctggatata      360
tctctgaca gtactgaaga acttcttctt ttgtttcaaa agcaactctt ggtgcctggt      420
ngatcagggt cccatttccc agtccgaatg ttcacatggc atatnttact tcccacaaaa      480

```

```

<210> 92
<211> 477
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G

```

```

<400> 92
atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcgggtcact      60
ggtcccgctg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcctt      120
cccacgcagg cagcagcggg gccggtcaat gaactccact cgtggcttgg ggttgacggt      180
taantgcagg aagaggctga ccacctcgcg gtccaccagg atgcccgact gtgogggacc      240
tgcagcgaaa ctcctcgatg gtcatgagcg ggaagcgaat gangcccagg gccttgccca      300
gaaccttcog cctgttctct ggcgtcacct gcagctgctg ccgctnacac tcggcctcgg      360
accagcggac aaacggcggt gaacagccgc acctcacgga tgcccantgt gtcgcgctcc      420
aggaacggcn ccagcgtgtc caggtcaatg tcggtgaanc ctccgcgggt aatggcg      477

```

```

<210> 93
<211> 377
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(377)
<223> n = A,T,C or G

```

34

```

<400> 93
gaacggctgg accttgccctc gcatttgtct gctggcagga ataccttggc aagcagctcc      60
agtccgagca gccccagacc gctgccgccc gaagctaagc ctgcctctgg ccttcccctc      120
cgcctcaatg cagaaccant agtgggagca ctgtgttttag agttaagagt gaacactgtn      180
tgattttact tgggaatttc ctctgtttata tagcttttcc caatgctaatt ttccaaacaa      240
caacaacaaa ataacatggt tgccctgttna gttgtataaa agtangtgat tctgtatnta      300
aagaaaatat tactgtttaca tatactgctt gcaantttctg tattttattgg tnctctggaa      360
ataaatatat tattaata

```

```

<210> 94
<211> 495
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(495)
<223> n = A,T,C or G

```

```

<400> 94
ccctttgagg ggtaggggtc cagttcccag tggaagaaac aggccaggag aantgcgtgc      60
cgagctgang cagatttccc acagtgaccc cagagccctg ggctatagtc tctgaccctc      120
ccaaggaaaag accaccttct ggggacatgg gctggagggc aggacctaga ggcaccaagg      180
gaaggcccca ttccgggggt gttccccgag gaggaaggga aggggctctg tgtgcccccc      240
acgaggaana ggccctgant cctgggatca nacaccctt cactgtgata ccacacaaaa      300
tgcaagctca ccaaggtccc ctctcagttc cttccctaca ccctgaacgg nactggccc      360
acaccacccc agancancca cccgccatgg ggaatgttct caaggaatcg cngggcaacg      420
tggaactctng tcccnaagg gggcagaatc tccaatagan gganngaacc cttgctnana      480
aaaaaaaaa aaaaa

```

```

<210> 95
<211> 472
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

```

```

<400> 95
ggttacttgg tttcattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc      60
cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt      120
tagctgtttt gagttgattc gcaccactgc accacaactc aatatgaaaa ctatttnact      180
tatttattat cttgtgaaaa gtatacaatg aaaattttgt tcatactgta tttatcaagt      240
atgatgaaaa gcaatagata tatattcttt tattatgttn aattatgatt gccattatta      300
atcggcaaaa tgtggagtgt atgttctttt cacagtaata tatgcctttt gtaacttcac      360
ttggttattt tattgtaaat gaattacaaa attcttaatt taagaaaatg gtangttata      420
tttanttcan taatttcttt cttgttttac gttaattttg aaaagaatgc at              472

```

```

<210> 96
<211> 476
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature

```

35

<222> (1)...(476)

<223> n = A,T,C or G

<400> 96

ctgaagcatt	tcttcaaact	tntctacttt	tgtcattgat	acctgtagta	agttgacaat	60
gtggtgaaat	ttcaaaatta	tatgtaactt	ctactagttt	tactttctcc	cccaagtctt	120
ttttaactca	tgattttttac	acacacaatc	cagaacttat	tatatagcct	ctaagtcttt	180
attcttcaca	gtagatgatg	aaagagtcct	ccagtgtctt	gngcanaatg	ttctagntat	240
agctggatac	atacngtggg	agttctataa	actcatacct	cagtgggact	naaccaaaat	300
tgtgttagtc	tcaattccta	ccacactgag	ggagcctccc	aaatcactat	attcttatct	360
gcaggctactc	ctccagaaaa	acngacaggg	caggcttgca	tgaaaaagtn	acatctgcgt	420
tacaaagtct	atcttccctca	nangtctgtn	aaggaacaat	ttaatcttct	agcttt	476

<210> 97

<211> 479

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(479)

<223> n = A,T,C or G

<400> 97

actcttttcta	atgctgatat	gatcttgagt	ataagaatgc	atatgtcact	agaatggata	60
aaataatgct	gcaaacctta	tgttcttatg	caaaatggaa	cgctaatagaa	acacagctta	120
caatcgcaaa	tcaaaactca	caagtgtctca	tctgtttag	atttagtgta	ataagactta	180
gattgtgctc	cttcggatat	gattgtttct	canatcttgg	gcaatnttcc	ttagtcaaat	240
caggctacta	gaattctgtt	attggatatn	tgagagcatg	aaatttttaa	naatacactt	300
gtgattatna	aattaatcac	aaattttcact	tatacctgct	atcagcagct	agaaaaacat	360
ntnnttttta	natcaaagta	ttttgtgttt	ggaantgttn	aaatgaaatc	tgaatgtggg	420
ttcnatctta	ttttttcccn	gacnactant	tnctttttta	gggnctattc	tgancatc	479

<210> 98

<211> 461

<212> DNA

<213> Homo sapien

<400> 98

agtgaacttgt	cctccaacaa	aacccttga	tcaagtttgt	ggcactgaca	atcagaccta	60
tgctagtcc	tgcatctat	tcgctactaa	atgcagactg	gaggggacca	aaaaggggca	120
tcaactccag	ctggattatt	ttggagcctg	caaactctatt	cctacttgta	cggactttga	180
agtgattcag	tttcctctac	ggatgagaga	ctggctcaag	aatatcctca	tgcaacttta	240
tgaagccact	ctgaacacgc	tggttatcta	gatgagaaca	gagaaataaa	gtcagaaaat	300
ttacctggag	aaaagaggct	ttggctgggg	accatcccat	tgaaccttct	cttaaggact	360
ttaagaaaaa	ctaccacatg	ttgtgtatcc	tggtgccggc	cgtttatgaa	ctgaccaccc	420
tttgaataa	tcttgacgct	cctgaacttg	ctcctctgcg	a		461

<210> 99

<211> 171

<212> DNA

<213> Homo sapien

<400> 99

gtggccgcgc	gcagggtgtt	cctcgtagcg	cagggccccc	tcccttcccc	aggcgtccct	60
cggcgccctc	gogggcccca	ggaggagcgg	ctggcgggtg	gggggagtgt	gaccacacct	120
cggtgagaaa	agccttctct	agcgatctga	gaggcgtgcc	ttgggggtac	c	171

36

<210> 100
 <211> 269
 <212> DNA
 <213> Homo sapien

<400> 100
 cggccgcaag tgcaactcca gctggggccg tggggacgaa gattctgcca gcagttggtc 60
 cgactgacgac gacggcgccg gcgacagtcg caggtgcagc gcgggcgcct ggggtcttgc 120
 aaggctgagc tgacgccgca gaggtcgtgt cactgtccac gaccttgacg ccgtcgggga 180
 cagccggaac agagcccggt gaagcgggag gcctcgggga gcccctcggg aaggcgccgc 240
 cgagagatac gcaggtgcag gtggccgcc 269

<210> 101
 <211> 405
 <212> DNA
 <213> Homo sapien

<400> 101
 tttttttttt ttttggaaac tactgcgagc acagcaggtc agcaacaagt ttattttgca 60
 gctagcaagg taacagggtg gggcatggtt acatgttcag gtcaacttcc tttgtcgtgg 120
 ttgattgggt tgtctttatg gggcggggtt ggggtagggg aaacgaagca aataacatgg 180
 agtgggtgca ccctccctgt agaacctggt taaaaagctt ggggcagttc acctggtctg 240
 tgaccgtcat tttcttgaca tcaatgttat tagaagtcag gatattcttt agagagtcca 300
 ctgttctgga gggagattag gttttcttgc caaatccaac aaaatccact gaaaaagttg 360
 gatgatcagt acgaataccg aggcattatc tcatatcggg ggcca 405

<210> 102
 <211> 470
 <212> DNA
 <213> Homo sapien

<400> 102
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 ggcacttaat ccattttttat ttcaaaatgt ctacaaattt aatcccatta tacgggtattt 120
 tcaaaatcta aattattcaa attagccaaa tctttaccaa ataataccca aaaatcaaaa 180
 atatacttct ttcagcaaac ttgttacata aattaaaaaa atatatacgg ctgggtgtttt 240
 caaagtacaa ttatcttaac actgcaaaaca ttttaaggaa ctaaaaataaa aaaaaacact 300
 ccgcaaagggt taaagggaac aacaaattct tttacaacac cattataaaa atcataatctc 360
 aaatcttagg ggaatatata cttcacacgg gatcttaact tttactcact ttgtttattt 420
 ttttaaacca ttgtttgggc ccaacacaat ggaatcccc ctggactagt 470

<210> 103
 <211> 581
 <212> DNA
 <213> Homo sapien

<400> 103
 tttttttttt ttttttttga cccccctctt ataaaaaaca agttaccatt ttattttact 60
 tacacatatt tattttataa ttggtattag atattcaaaa ggcagctttt aaaatcaaac 120
 taaatggaaa ctgccttaga tacataattc ttaggaatta gcttaaaatc tgccataaagt 180
 gaaaatcttc tctagctctt ttgactgtaa atttttgact cttgtaaaac atocaaattc 240
 atttttcttg tcttttaaat tatctaattc ttccattttt tccctattcc aagtcaattt 300
 gcttctctag cctcatttcc tagctottat ctactattag taagtggctt ttttctctaaa 360
 agggaaaaca ggaagagaaa tggcacacaa aacaaacatt ttatattcat atttctacct 420
 acgttaataa aatagcattt tgtgaagcca gctcaaaaaga aggttagat cctttttatgt 480
 ccatttttagt cactaaacga tatcaaagtg ccagaatgca aaagggtttgt gaacatttat 540
 tcaaaagcta atataagata tttcacatac tcatctttct g 581

<210> 104
 <211> 578
 <212> DNA
 <213> Homo sapien

<400> 104
 tttttttttt tttttttttt tttttctott cttttttttt gaaatgagga tcgagttttt 60
 cactotcttag atagggcatg aagaaaactc atctttccag ctttaaaata acaatcaaatt 120
 ctcttatgct atatcatatt ttaagttaaa ctaatgagtc actggcttat cttctcctga 180
 aggaaatctg ttcattcttc tcattcatat agttatatca agtactacct tgcataattga 240
 gaggtttttc ttctctatct acacatatat ttccatgtga atttgtatca aacctttatt 300
 ttcatgcaaa ctagaaaata atgtttcttt tgcataagag aagagaacaa tatagcatta 360
 caaaactgct caaattgttt gttaagttaa ccattataat tagttggcag gagctaatac 420
 aaatcacatt tacgacagca ataataaaac tgaagtacca gttaaatatc caaataaatt 480
 aaaggaacat ttttagcctg ggtataatta gctaattcac tttacaagca tttattagaa 540
 tgaattcaca tgttattatt cctagcccaa cacaatgg 578

<210> 105
 <211> 538
 <212> DNA
 <213> Homo sapien

<400> 105
 tttttttttt tttttcagta ataatacagaa caatatattt ttttatattt aaaattcata 60
 gaaaagtgcc ttacatttaa taaaagtgtt tttctcaaag tgatcagagg aattagatat 120
 gtcttgaaca ccaatattaa tttgaggaaa atacaccaa atacattaag taaattattt 180
 aagatcatag agcttgtaag tgaaaagata aaatttgacc tcagaaaactc tgagcattaa 240
 aaatccacta ttagcaata aattactatg gacttcttgc ttttaattttg tgatgaatat 300
 ggggtgtcac tggtaaacca acacattctg aaggatacat tacttagtga tagattctta 360
 tgtactttgc taatacgtgg atatgagttg acaagtttct ctttcttcaa tcttttaagg 420
 ggcgagaaat gaggaagaaa agaaaaggat tacgcatact gttctttcta tggaaggatt 480
 agatatgttt cctttgcaa tattaataaa ataataatgt ttactactag tgaaacc 538

<210> 106
 <211> 473
 <212> DNA
 <213> Homo sapien

<400> 106
 tttttttttt ttttttagtc aagtttctat ttttattata attaaagtct tggtcatttc 60
 atttattagc tctgcaactt acatatttaa attaaagaaa cgttttagac aactgtacaa 120
 tttataaatg taagggtgcca ttattgagta atatattcct ccaagagtgg atgtgtccct 180
 tctcccacca actaatgaac agcaacatta gtttaatttt attagtagat atacactgct 240
 gcaaacgcta attctcttct ccatcccat gtgatattgt gtatatgtgt gagttggtag 300
 aatgcatcac aatctacaat caacagcaag atgaagctag gctgggcttt cggtgaaaat 360
 agaactgtgtc tgtctgaatc aaatgatctg acctatcctc ggtggcaaga actcttcgaa 420
 ccgcttcctc aaaggcgctg ccacatttgt ggctctttgc acttgtttca aaa 473

<210> 107
 <211> 1621
 <212> DNA
 <213> Homo sapien

<400> 107
 cgccatggca ctgcagggca tctcggtoat ggagctgtcc ggctggccc cgggccggtt 60
 ctgtgctatg gtcttggtg acttcggggc gcgtgtggtg cgcgtggacc ggcccggtc 120
 ccgtacgac gtcagccgct tgggcccggg caagcgctcg ctagtgtggt acctgaagca 180
 gccgcgggga gccgcgctgc tgcggcgtct gtgcaagcgg tcggatgtgc tgctggagcc 240

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cttccgccgc ggtgtcatgg agaaactcca gctgggcccc gagattctgc agcgggaaaa 300
tccaaggcctt atttatgccca ggctgagtggt atttggccag tcaggaagct tctgccgggtt 360
agctggccac gatatacaact atttggcttt gtcagggtgtt ctctcaaaaa ttggcagaag 420
tggtgagaat ccgtatgccc cgctgaatct cctgggtgac tttgctggtg gtggccttat 480
gtgtgcaactg ggcattataa tggctctttt tgaccgcaca cgcactgaca agggtcaggt 540
cattgatgca aatatggttg aaggaacagc atattttaagt tcttttctgt ggaaaactoa 600
gaaatcgagt ctgtgggaag cacctcgagg acagaacatg ttggatggtg gagcaccttt 660
ctatacgact tacaggacag cagatgggga attcatggct gttggagcaa tagaaccoca 720
gttctacgag ctgctgatca aaggacttgg actaaagtct gatgaacttc ccaatcagat 780
gagcatggat gattggccag aaatgaagaa gaagtttgca gatgtatttg caaagaagac 840
gaaggcagag tgggtgtcaaa tctttgacgg cacagatgcc tgtgtgactc cggttctgac 900
ttttgaggag gttgttcac atgatcacaa caaggaacgg ggctcgttta tcaccagtga 960
ggagcaggac gtgagcccc gccctgcacc tctgctgtta aacaccccag ccatcccttc 1020
tttcaaaagg gatcctttca taggagaaca cactgaggag atacttgaag aatttggatt 1080
cagccgcgaa gagatttatc agcttaactc agataaaaatc attgaaagta ataaggtaaa 1140
agctagtctc taacttccag gccacggct caagtgaatt tgaatactgc atttacagt 1200
tagagtaaca cataacattg tatgcatgga aacatggagg aacagtatta cagtgtccta 1260
ccactcta at caagaaaaga attacagact ctgattctac agtgatgatt gaattctaaa 1320
aatggttatc attagggctt ttgatttata aaactttggg tacttatact aaattatggt 1380
agttattctg ccttccagtt tgcttgatat atttgttgat attagattc ttgacttata 1440
ttttgaatgg gttctagtga aaaaggaatg atatatctt gaagacatcg atatacattt 1500
atttacactc ttgattctac aatgtagaaa atgaggaaat gccacaaatt gtatggtgat 1560
aaaagtcacg tgaacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
a

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```

<210> 108
<211> 382
<212> PRT
<213> Homo sapien

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```

<400> 108
Met Ala Leu Gln Gly Ile Ser Val Met Glu Leu Ser Gly Leu Ala Pro
1 5 10 15
Gly Pro Phe Cys Ala Met Val Leu Ala Asp Phe Gly Ala Arg Val Val
20 25 30
Arg Val Asp Arg Pro Gly Ser Arg Tyr Asp Val Ser Arg Leu Gly Arg
35 40 45
Gly Lys Arg Ser Leu Val Leu Asp Leu Lys Gln Pro Arg Gly Ala Ala
50 55 60
Val Leu Arg Arg Leu Cys Lys Arg Ser Asp Val Leu Leu Glu Pro Phe
65 70 75 80
Arg Arg Gly Val Met Glu Lys Leu Gln Leu Gly Pro Glu Ile Leu Gln
85 90 95
Arg Glu Asn Pro Arg Leu Ile Tyr Ala Arg Leu Ser Gly Phe Gly Gln
100 105 110
Ser Gly Ser Phe Cys Arg Leu Ala Gly His Asp Ile Asn Tyr Leu Ala
115 120 125
Leu Ser Gly Val Leu Ser Lys Ile Gly Arg Ser Gly Glu Asn Pro Tyr
130 135 140
Ala Pro Leu Asn Leu Leu Ala Asp Phe Ala Gly Gly Leu Met Cys
145 150 155 160
Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys
165 170 175
Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser
180 185 190
Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg
195 200 205
Gly Gln Asn Met Leu Asp Gly Gly Ala Pro Phe Tyr Thr Thr Tyr Arg

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210	215	220
Thr Ala Asp Gly Glu Phe Met Ala Val Gly Ala Ile Glu Pro Gln Phe		
225	230	235
Tyr Glu Leu Leu Ile Lys Gly Leu Gly Leu Lys Ser Asp Glu Leu Pro		240
	245	250
Asn Gln Met Ser Met Asp Asp Trp Pro Glu Met Lys Lys Lys Phe Ala		255
	260	265
Asp Val Phe Ala Lys Lys Thr Lys Ala Glu Trp Cys Gln Ile Phe Asp		270
	275	280
Gly Thr Asp Ala Cys Val Thr Pro Val Leu Thr Phe Glu Glu Val Val		285
	290	295
His His Asp His Asn Lys Glu Arg Gly Ser Phe Ile Thr Ser Glu Glu		300
305	310	315
Gln Asp Val Ser Pro Arg Pro Ala Pro Leu Leu Leu Asn Thr Pro Ala		320
	325	330
Ile Pro Ser Phe Lys Arg Asp Pro Phe Ile Gly Glu His Thr Glu Glu		335
	340	345
Ile Leu Glu Glu Phe Gly Phe Ser Arg Glu Glu Ile Tyr Gln Leu Asn		350
	355	360
Ser Asp Lys Ile Ile Glu Ser Asn Lys Val Lys Ala Ser Leu		365
370	375	380

<210> 109
 <211> 1524
 <212> DNA
 <213> Homo sapien

<400> 109

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cagtgcgacc	tagtggctct	cacctgcttc	ctcctgggcg	tgggctgccg	gctgaccccg	180
ggtttgtagc	acctgggccc	cactgtcctc	tgcacgcact	tcattggttt	caagggtgcg	240
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<210> 110
 <211> 3410
 <212> DNA

<213> Homo sapien

<400> 110

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aagctggacc	ggcaccaaaag	ggctggcaga	aatggggcgc	tggctgattc	ctaggcagtt	180
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gagtgcctga	acggccccct	gagccctacc	cgcttggccc	actatggtcc	agaggctgtg	300
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gaggtcttat	ctctcagggg	gggtttaagt	gccgtttgca	ataatgtogt	cttatttatt	3240
tagcgggggtg	aatattttat	actgtaagtg	agcaatcaga	gtataatgtt	tatggtgaca	3300

41

aaattaaagg ctttcttata tgtttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3360
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa 3410

<210> 111
 <211> 1289
 <212> DNA
 <213> Homo sapien

<400> 111
 agccaggcgt ccctctgcct gccactcag tggcaacacc cgggagctgt tttgtccttt 60
 gtggagcctc agcagttccc tctttcagaa ctactgccca agagccctga acaggagcca 120
 ccatgcagtg cttcagcttc attaaagcca tgatgatcct cttcaatttg ctcatctttc 180
 tgtgtggtgc agccctgttg gcagtgggca tctgggtgtc aatcgatggg gcatcctttc 240
 tgaagatctt cgggccactg tcgtccagtg ccatgcagtt tgtcaacgtg ggctacttcc 300
 tcatcgagc cggcgttgtg gtccttgctc ttgggttccct gggctgctat ggtgctaaga 360
 ctgagagcaa gtgtgccctc gtgacgttct tcttcactct cctcctcatc ttcatgtgtg 420
 aggttgagc tgctgtggtc gccttggtgt acaccacaat ggctgagcac ttctgacgt 480
 tgctggtagt gcctgccatc aagaaagatt atggttccca ggaagacttc actcaagtgt 540
 ggaacaccac catgaaaggg ctcaagtgtc gtgggttcac caactatacg gattttgagg 600
 actcacccta cttcaaagag aacagtgcct ttccccatt ctgttgcaat gacaacgtca 660
 ccaacacagc caatgaaacc tgcaccaagc aaaaggctca cgaccaaaaa gtagagggtt 720
 gcttcaatca gcttttgtat gacatccgaa ctaatgcagt caccgtgggt ggtgtggcag 780
 ctggaattgg gggcctcgag ctggctgccca tgattgtgtc catgtatctg tactgcaatc 840
 tacaataagt ccacttctgc ctctgccact actgctgccca catgggaact gtgaagaggc 900
 accctggcaa gcagcagtga ttgggggagg ggacaggatc taacaatgtc acttgggcca 960
 gaatggacct gccctttctg ctccagactt ggggctagat agggaccact ccttttagcg 1020
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 gtagccagtt ctgttgccca ttccccagtt ctattaaacc cttgatatgc cccctaggcc 1140
 tagtggtagt cccagtgtc tactggggga tgagagaaag gcattttata gcctgggcat 1200
 aagtgaaatc agcagagcct ctgggtggat gtgtagaagg cacttcaaaa tgcataaacc 1260
 tgttacaatg ttaaaaaaaaa aaaaaaaaaa 1289

<210> 112
 <211> 315
 <212> PRT
 <213> Homo sapien

<400> 112
 Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val Asn Lys Gln
 1 5 10 15
 Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe
 20 25 30
 Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala
 35 40 45
 Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu
 50 55 60
 Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro
 65 70 75 80
 Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser
 85 90 95
 Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala Gly Thr Cys
 100 105 110
 Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Leu Val Ile Phe
 115 120 125
 Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile Ala Met Phe
 130 135 140
 Ser Tyr Thr Phe Gly Lys Val Gln Gly Asn Ser Asp Leu Tyr Trp Lys
 145 150 155 160

42

Ala Gln Arg Tyr Arg Leu Ile Arg Glu Phe His Ser Arg Pro Ala Leu
 165 170 175
 Ala Pro Pro Phe Ile Val Ile Ser His Leu Arg Leu Leu Leu Arg Gln
 180 185 190
 Leu Cys Arg Arg Pro Arg Ser Pro Gln Pro Ser Ser Pro Ala Leu Glu
 195 200 205
 His Phe Arg Val Tyr Leu Ser Lys Glu Ala Glu Arg Lys Leu Leu Thr
 210 215 220
 Trp Glu Ser Val His Lys Glu Asn Phe Leu Leu Ala Arg Ala Arg Asp
 225 230 235 240
 Lys Arg Glu Ser Asp Ser Glu Arg Leu Lys Arg Thr Ser Gln Lys Val
 245 250 255
 Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr Glu Gln Arg
 260 265 270
 Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg Val Leu Gly
 275 280 285
 Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro Pro Gly Gly
 290 295 300
 Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp
 305 310 315

<210> 113
 <211> 553
 <212> PRT
 <213> Homo sapien

<400> 113
 Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala
 1 5 10 15
 Gln Leu Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu
 20 25 30
 Ala Ala Gly Ile Thr Tyr Val Pro Leu Leu Leu Glu Val Gly Val
 35 40 45
 Glu Glu Lys Phe Met Thr Met Val Leu Gly Ile Gly Pro Val Leu Gly
 50 55 60
 Leu Val Cys Val Pro Leu Leu Gly Ser Ala Ser Asp His Trp Arg Gly
 65 70 75 80
 Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp Ala Leu Ser Leu Gly Ile
 85 90 95
 Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala Gly Trp Leu Ala Gly Leu
 100 105 110
 Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu Ala Leu Leu Ile Leu Gly
 115 120 125
 Val Gly Leu Leu Asp Phe Cys Gly Gln Val Cys Phe Thr Pro Leu Glu
 130 135 140
 Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg Gln Ala
 145 150 155 160
 Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu Gly Gly Cys Leu Gly Tyr
 165 170 175
 Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu
 180 185 190
 Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu
 195 200 205
 Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly
 210 215 220
 Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His
 225 230 235 240
 Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu

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                245                250                255
Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg
                260                265                270
Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe
                275                280                285
Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val
                290                295                300
Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
305                310                315                320
Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu
                325                330                335
Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg
                340                345                350
Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala
                355                360                365
Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
                370                375                380
Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala
385                390                395                400
Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly
                405                410                415
Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu
                420                425                430
Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala
                435                440                445
Gly Gly Ser Gly Leu Leu Pro Pro Pro Ala Leu Cys Gly Ala Ser
                450                455                460
Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala
465                470                475                480
Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
                485                490                495
Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser
                500                505                510
Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala
                515                520                525
Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp
530                535                540
Lys Ser Asp Leu Ala Lys Tyr Ser Ala
545                550

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<210> 114
<211> 241
<212> PRT
<213> Homo sapien

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<400> 114
Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu
1      5      10      15
Leu Ile Phe Leu Cys Gly Ala Ala Leu Leu Ala Val Gly Ile Trp Val
20      25      30
Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser
35      40      45
Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly
50      55      60
Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr
65      70      75      80
Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Phe Ile Leu Leu Leu Ile
85      90      95

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Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val Tyr Thr Thr
      100                      105                      110
Met Ala Glu His Phe Leu Thr Leu Leu Val Val Pro Ala Ile Lys Lys
      115                      120                      125
Asp Tyr Gly Ser Gln Glu Asp Phe Thr Gln Val Trp Asn Thr Thr Met
      130                      135                      140
Lys Gly Leu Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp
      145                      150                      155                      160
Ser Pro Tyr Phe Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn
      165                      170                      175
Asp Asn Val Thr Asn Thr Ala Asn Glu Thr Cys Thr Lys Gln Lys Ala
      180                      185                      190
His Asp Gln Lys Val Glu Gly Cys Phe Asn Gln Leu Leu Tyr Asp Ile
      195                      200                      205
Arg Thr Asn Ala Val Thr Val Gly Gly Val Ala Ala Gly Ile Gly Gly
      210                      215                      220
Leu Glu Leu Ala Ala Met Ile Val Ser Met Tyr Leu Tyr Cys Asn Leu
      225                      230                      235                      240
Gln

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<210> 115
<211> 366
<212> DNA
<213> Homo sapien

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<400> 115
gctcttttctc tcccctcctc tgaatttaat tctttcaact tgcaatttgc aaggattaca      60
catttccactg tgatgtatat tgtgttgcaa aaaaaaaaaa gtgtccttgt ttaaaattac      120
ttggtttgtg aatccatctt gctttttccc catttggaact agtcattaac ccatctctga      180
actggttagaa aaacatctga agagctagtc tatcagcatc tgacagggtga attggatggg      240
tctcagaacc atttcaccca gacagcctgt ttctatcctg ttttaataaat tagtttgggt      300
tctctacatg cataacaaac cctgctccaa tctgtcacat aaaagtctgt gacttgaagt      360
ttagtc

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<210> 116
<211> 282
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

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<400> 116
acaagatga accatttcct atattatagc aaaattaaaa tctacccgta ttctaattatt      60
gagaaatgag atnaaacaca atnttataaa gtctacttag agaagatcaa gtgacctcaa      120
agactttact attttcatat ttttaagacac atgattttatc ctatttttagt aacctgggtc      180
atacgttaaa caaaggataa tgtgaacagc agagaggatt tgttggcaga aaatctatgt      240
tcaatctnga actatctana tcacagacat ttctattcct tt

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<210> 117
<211> 305
<212> DNA
<213> Homo sapien

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<220>

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45

<221> misc_feature
 <222> (1)...(305)
 <223> n = A,T,C or G

<400> 117
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 tattttatcct ccctcctgaa acaattgcaa aataanacaa aatatatgaa acaattgcaa 120
 aataaggcaa aatatatgaa acaacaggtc tcgagatatt ggaaatcagt caatgaagga 180
 tactgatccc tgatcactgt cctaatagcag gatgtgggaa acagatgagg tcacctctgt 240
 gactgccccca gcttactgcc tgtagagagt ttctangctg cagttcagac agggagaaat 300
 tgggt 305

<210> 118
 <211> 71
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(71)
 <223> n = A,T,C or G

<400> 118
 accaaggtgt ntgaatctct gacgtgggga tctctgattc ccgcacaatc tgagtggaaa 60
 aantcctggg t 71

<210> 119
 <211> 212
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(212)
 <223> n = A,T,C or G

<400> 119
 actccggttg gtgtcagcag cacgtggcat tgaacatngc aatgtggagc ccaaaccaca 60
 gaaaatgggg tgaaattggc caactttcta tnaacttatg ttggcaantt tgccaccaac 120
 agtaagctgg cccttctaataaaaagaaaat tgaaaggttt ctcactaanc ggaattaant 180
 aatggantca aganactccc aggcctcagc gt 212

<210> 120
 <211> 90
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(90)
 <223> n = A,T,C or G

<400> 120
 actcggttgca natcaggggc cccccagagt caccgttgca ggagtccttc tgggtcttgcc 60
 ctccgccggc gcagaacatg ctgggggtggg 90

<210> 121
 <211> 218

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(218)
 <223> n = A,T,C or G

<400> 121
 tgtancgtga anacgacaga naggggtgtc aaaaatggag aanccttgaa gtcattttga 60
 gaataagatt tgctaaaaga tttggggcta aaacatgggtt attgggagac atttctgaag 120
 atatncangt aaattangga atgaattcat ggttcttttg ggaattcctt tacgatngcc 180
 agcatanact tcatgtgggg atancagcta cccttgta 218

<210> 122
 <211> 171
 <212> DNA
 <213> Homo sapien

<400> 122
 taggggtgta tgcaactgta aggacaaaaa ttgagactca actggccttaa ccaataaagg 60
 catttggttag ctcatggaac aggaagtcgg atgggtggggc atcttcagtg ctgcatgagt 120
 caccaccccg ggggggtcat ctgtgccaca ggtccctggt gacagtgcgg t 171

<210> 123
 <211> 76
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(76)
 <223> n = A,T,C or G

<400> 123
 tgtagcgtga agacnacaga atgggtgtgtg ctgtgctatc caggaacaca tttattatca 60
 ttatcaanta ttgtgt 76

<210> 124
 <211> 131
 <212> DNA
 <213> Homo sapien

<400> 124
 acctttcccc aaggccaatg tcctgtgtgc taactggccg gctgcaggac agctgcaatt 60
 caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120
 ttaagatttg t 131

<210> 125
 <211> 432
 <212> DNA
 <213> Homo sapien

<400> 125
 actttatcta ctggctatga aatagatggt ggaaaattgc gttaccaact ataccactgg 60
 cttgaaaaag aggtgatagc tcttcagagg acttgtgact tttgctcaga tgctgaagaa 120
 ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat 180
 ttgcctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg 240

47

ctcttgaagt atcagtcact tttgagaatg tttcttagtt actgcatact tcatggatcc	300
catggtgggg gtcttgcatac tgtaagaatg gaattgattt tgcttttgca agaattctcag	360
caggaaacat cagaaccact attttctagc cctctgtcag agcaaaccctc agtgccctctc	420
ctctttgctt gt	432

<210> 126
 <211> 112
 <212> DNA
 <213> Homo sapien

<400> 126	
acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat	60
agtaagaatg atatttcccc ccagggatca ccaaatattt ataaaaattt gt	112

<210> 127
 <211> 54
 <212> DNA
 <213> Homo sapien

<400> 127	
accacgaaac cacaacaag atggaagcat caatccactt gccaaagcaca gcag	54

<210> 128
 <211> 323
 <212> DNA
 <213> Homo sapien

<400> 128	
acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc	60
acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgtcga	120
ttctctctga agtctagggt acccattttg gggaccatt ataggcaata aacacagttc	180
ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcctttt tcttagcctt	240
ttcctgcaaa aggctcactc agtcccttgc ttgctcagtg gactggggtc cccagggcct	300
aggctgcctt cttttccatg tcc	323

<210> 129
 <211> 192
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(192)
 <223> n = A,T,C or G

<400> 129	
acatacatgt gtgtatatattt ttaaataatca cttttgtatc actctgactt tttagcatatc	60
tgaaaacaca ctaacataat ttntgtgaac catgatcaga tacaacccaa atcattcatc	120
tagcacattc atctgtgata naaagatagg tgagtttcat ttccttcacg ttggccaatg	180
gataaacaaa gt	192

<210> 130
 <211> 362
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

48

<222> (1)...(362)
 <223> n = A,T,C or G

<400> 130
 cccttttttta tggaatgagt agactgtatg tttgaanatt tanccacaac ctcttttgaca 60
 tataatgacg caacaaaaag gtgctgttta gtcctatggt tcagtttatg cccctgacaa 120
 gtttccattg tgttttgccg atcttctggc taatcgtggt atcctccatg ttattagtaa 180
 ttctgtattc cattttgtta acgcctggta gatgtaacct gctangaggc taactttata 240
 cttattttaa agctcttatt ttgtggcat taaaatggca atttatgtgc agcactttat 300
 tgcagcagga agcacgtgtg ggttggttgt aaagctcttt gctaattctta aaaagtaatg 360
 gg 362

<210> 131
 <211> 332
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(332)
 <223> n = A,T,C or G

<400> 131
 ctttttgaaa gatcgtgtcc actcctgtgg acatcttgtt ttaatggagt ttcccatgca 60
 gtangactgg tatggttgca gctgtccaga taaaaacatt tgaagagctc caaaatgaga 120
 gttctcccag gttcgccctg ctgctccaag tctcagcagc agcctctttt aggaggcatc 180
 ttctgaacta gattaaggca gcttgtaa atctgatgtat ttggtttatt atccaactaa 240
 cttocatctg ttatcactgg agaaagccca gactcccan gacnggtacg gattgtgggc 300
 atanaaggat tgggtgaagc tggcgttgtg gt 332

<210> 132
 <211> 322
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(322)
 <223> n = A,T,C or G

<400> 132
 acttttgcca ttttgtatat ataaacaatc ttgggacatt ctctgaaaa ctaggtgtcc 60
 agtggctaag agaactcgat ttcaagcaat tctgaaagga aaaccagcat gacacagaat 120
 ctcaaattcc caaacagggg ctctgtggga aaaatgaggg aggaccttg tatctcgggt 180
 tttagcaagt taaaatgaan atgacaggaa aggcttattt atcaacaaag agaagagttg 240
 ggatgcttct aaaaaaaact ttggtagaga aaataggaat gctnaatcct aggggaagcct 300
 gtaacaatct acaattggtc ca 322

<210> 133
 <211> 278
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(278)
 <223> n = A,T,C or G

<400> 133
 acaagccttc acaagtttaa ctaaattggg attaatcttt ctgtanttat ctgcataatt 60
 cttgtttttc tttccatctg gtccttgggt tgacaatttg tggaaacaac tctattgcta 120
 ctatttaaaa aaaatcacaa atctttccct ttaagctatg ttnaattcaa actattcctg 180
 ctattcctgt tttgtcaaag aaattatatt tttcaaaata tgtntatttg tttgatgggt 240
 cccacgaaac actaataaaa accacagaga ccagcctg 278

<210> 134
 <211> 121
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(121)
 <223> n = A,T,C or G

<400> 134
 gtttanaaaa cttgttttagc tccatagagg aaagaatggt aaactttgta ttttaaaaca 60
 tgattctctg aggttaaact tggttttcaa atgttatatt tacttgtatt ttgcttttgg 120
 t 121

<210> 135
 <211> 350
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(350)
 <223> n = A,T,C or G

<400> 135
 acttanaacc atgcctagca catcagaatc cctcaaagaa catcagtata atcctataacc 60
 atancaagtg gtgactgggt aagcgtgcga caaaggctcag ctggcacatt acttgtgtgc 120
 aaacttgata cttttgttct aagtaggaac tagtatacag tncctaggan tgggtactoca 180
 ggggtgcccc caactcctgc agccgctcct ctgtgccagn ccttgnaagg aactttcgtc 240
 ccacctcaat caagccctgg gccatgctac ctgcaattgg ctgaacaaac gtttgctgag 300
 ttcccaagga tgcaaagcct ggtgctcaac tcctggggcg tcaactcagt 350

<210> 136
 <211> 399
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G

<400> 136
 tgtaccgtga agacgacaga agttgcatgg cagggacagg gcagggccga ggccaggggt 60
 gctgtgattg tatccgaata ntcctcgtga gaaaagataa tgagatgacg tgagcagcct 120
 gcagacttgt gtctgccttc aanaagccag acaggaaggc cctgcctgcc ttgggtctga 180
 cctggcggcc agccagccag ccacaggtgg gcttcttcct tttgtggtga caacnccaag 240
 aaaactgcag aggccagggt tcaggtgtna gtgggtangt gaccataaaa caccaggtgc 300
 tcccaggaac ccgggcaaag gccatcccca cctacagcca gcatgcccac tggcgtgatg 360
 ggtgcagang gatgaagcag ccagntgttc tgctgtggt 399

50

<210> 137
 <211> 165
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(165)
 <223> n = A,T,C or G

<400> 137	
actggtgtgg tngggggtga tgctggtggt anaagttgan gtgacttcan gatggtgtgt	60
ggaggaagtg tgtgaacgta gggatgtaga ngttttggcc gtgctaaatg agcttcggga	120
ttggctggtc ccactggtgg tcactgtcat tgggtggggtt cctgt	165

<210> 138
 <211> 338
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(338)
 <223> n = A,T,C or G

<400> 138	
actcactgga atgccacatt cacaacagaa tcagaggtct gtgaaaacat taatggctcc	60
ttaactttctc cagtaagaat cagggacttg aaatggaaac gttaacagcc acatgcccaa	120
tgctgggcag tctcccatgc cttccacagt gaaagggctt gagaaaaatc acatccaatg	180
tcatgtgttt ccagccacac caaaaggtgc ttgggggtgga gggctggggg catananggt	240
cangcctcag gaagcctcaa gttccattca gctttgccac tgtacattcc ccatntttaa	300
aaaaactgat gccttttttt tttttttttt taaaattc	338

<210> 139
 <211> 382
 <212> DNA
 <213> Homo sapien

<400> 139	
gggaatcttg gtttttggca tctggtttgc ctatagccga ggccactttg acagaacaaa	60
gaaagggact tcgagtaaga aggtgattta cagccagcct agtgcccgaa gtgaaggaga	120
attcaaacag acctcgatcat tcctggtgtg agcctggctg gctcaccgcc tatcatctgc	180
atitgcctta ctcaggtgct accggactct ggcccctgat gtctgtagtt tcacaggatg	240
ccttattttgt cttctacacc ccacagggcc cctacttct tcggatgtgt ttttaataat	300
gtcagctatg tgccccatcc tccttcatgc cctccctccc tttcctacca ctgctgagtg	360
gcctggaact tgtttaaagt gt	382

<210> 140
 <211> 200
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(200)
 <223> n = A,T,C or G

51

```

<400> 140
accaaaanctt ctttctgttg tgttngattt tactataggg gtttngcttn ttctaaanat    60
acttttcatt taacancttt tgtaaagtgt caggctgcac tttgctccat anaattattg    120
ttttcacatt tcaacttgta tgtgtttgtc tcttanagca ttggtgaaat cacatatattt    180
atattcagca taaaggagaa                                200

```

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<210> 141
<211> 335
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(335)
<223> n = A,T,C or G

```

```

<400> 141
actttatttt caaaacactc atatgttgca aaaaacacat agaaaaataa agtttgggtgg    60
gggtgctgac taaacttcaa gtcacagact tttatgtgac agattggagc agggtttggt    120
atgcatgtag agaaccctaaa ctaatttatt aaacaggata gaaacaggct gtctgggtga    180
aatgggttctg agaaccatcc aattcacctg tcagatgctg atanactagc tcttcagatg    240
tttttctacc agttcagaga tnggttaatg actanttcca atgggggaaaa agcaagatgg    300
attcacaac caagtaattt taaacaaaga cactt                                335

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```

<210> 142
<211> 459
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(459)
<223> n = A,T,C or G

```

```

<400> 142
accagggttaa tattgccaca tatatccttt ccaattgctg gctaaacaga cgtgtatttta    60
gggttggttta aagacaaccc agcttaatat caagagaaat tgtgaccttt catggagtat    120
ctgatggaga aaacactgag ttttgacaaa tcttatttta ttcagatagc agtctgatca    180
cacatgggtcc aacaacactc aaataataaa tcaaatatna tcagatgtta aagattggtc    240
ttcaaacatc atagccaatg atgccccgct tgectataat ctctccgaca taaaaccaca    300
tcaacacctc agtggccacc aaaccattca gcacagcttc cttaactgtg agctggttga    360
agctaccagt ctgagcacta ttgactatnt ttttcangct ctgaatagct ctagggatct    420
cagcanggggt gggaggaacc agctcaacct tggcggtant                                459

```

```

<210> 143
<211> 140
<212> DNA
<213> Homo sapien

```

```

<400> 143
acatttcoctt ccaccaagtc aggactcctg gcttctgtgg gagttcttat cacctgaggg    60
aaatccaaac agtctctcct agaaaggaat agtgtcacca accccaccca tctccctgag    120
accatccgac ttcctgtgtg                                140

```

```

<210> 144
<211> 164
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(164)
 <223> n = A,T,C or G

<400> 144
 acttcagtaa caacatacaa taacaacatt aagtgtatat tgccatcttt gtcattttct 60
 atctatacca ctctcccttc tgaaaacaan aatcactanc caatcactta tacaaatttg 120
 aggcaattaa tccatatttg ttttcaataa ggaaaaaaag atgt 164

<210> 145
 <211> 303
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

<400> 145
 acgtagacca tccaactttg tatttgtaat ggcaaacatc cagnagcaat tcctaaacaa 60
 actggagggt atttataccc aattatccca ttcattaaca tgccctcctc ctgaggctat 120
 gcaggacagc tatcataagt cggcccaggc atccagatac taccatttgt ataaaattca 180
 gtaggggagt ccatccaagt gacaggtcta atcaaaggag gaaatggaac ataagcccag 240
 tagtaaaatn ttgcttagct gaaacagcca caaaagactt accgccgtgg tgattaccat 300
 caa 303

<210> 146
 <211> 327
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(327)
 <223> n = A,T,C or G

<400> 146
 actgcagctc aattagaagt ggtctctgac tttcatcanc ttctccctgg gtcctatgac 60
 actggcctgg agtgactcat tgctctggtt ggttgagaga gctcctttgc caacaggcct 120
 ccaagtcagg gctgggattt gtttcctttc cacattctag caacaatatg ctggccactt 180
 cctgaacagg gaggggtgga ggagccagca tggaacaagc tgccactttc taaagtagcc 240
 agacttgccc ctgggcctgt cacacctact gatgaccttc tgtgcctgca ggatggaatg 300
 taggggtgag ctgtgtgact ctatggt 327

<210> 147
 <211> 173
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(173)
 <223> n = A,T,C or G

<400> 147

53

```

acattgtttt tttagataa agcattgana gagctctcct taacgtgaca caatggaagg      60
actggaacac ataccacat ctttgttctg agggataatt ttctgataaa gtcttgctgt      120
atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gtt             173

```

```

<210> 148
<211> 477
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G

```

```

<400> 148
acaaccactt tatctcatcg aatttttaac ccaaactcac tcactgtgcc tttctatcct      60
atgggatata ttatttgatg ctccatttca tcacacatat atgaataata cactcactact      120
gccctactac ctgctgcaat aatcacattc ccttcctgtc ctgaccctga agccattggg      180
gtggtcctag tggccatcag tccangcctg caccttgagc ccttgagctc cattgctcac      240
nccanccac ctcaccgacc ccatcctctt acacagctac ctcccttgct tctaacccca      300
tagattatnt ccaaattcag tcaattaagt tactattaac actctaccgg acatgtccag      360
caccactggt aagccttctc cagccaacac acacacacac acacncacac acacacatat      420
ccaggcacag gctacctcat cttcacaaac acccctttaa ttaccatgct atggtgg       477

```

```

<210> 149
<211> 207
<212> DNA
<213> Homo sapien

```

```

<400> 149
acagttgtat tataatatca agaaataaac ttgcaatgag agcatttaag agggaagaac      60
taacgtatnt tagagagcca aggaaggttt ctgtggggag tgggatgtaa ggtggggcct      120
gatgataaat aagagtcagc caggtaagtg ggtggtgtgg tatgggcaca gtgaagaaca      180
tttcaggcag agggaacagc agtgaaa

```

```

<210> 150
<211> 111
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(111)
<223> n = A,T,C or G

```

```

<400> 150
accttgatnt catttgctgct ctgatggaaa cccaactatc taatttagct aaaacatggg      60
cacttaaagt tggtcagtgt ttggacttgt taactantgg catctttggg t             111

```

```

<210> 151
<211> 196
<212> DNA
<213> Homo sapien

```

```

<400> 151
agcgcggcag gtcatatattga acattccaga tacctatcat tactcgatgc tgttgataac      60
agcaagatgg ctttgaactc agggtcacca ccagctattg gaccttacta tgaaaaccat      120
ggataccaac cggaaaaccc ctatcccgca cagcccaactg tgggtcccccac tgtctacgag      180

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gtgcatccgg ctcaagt 196

<210> 152
<211> 132
<212> DNA
<213> Homo sapien

<400> 152
acagcacttt cacatgtaag aaggaggaaa ttcctaaatg taggagaaag ataacagAAC 60
cttccccctt tcatctagtg gtggaaacct gatgctttat gttgacagga atagaaccag 120
gagggagttt gt 132

<210> 153
<211> 285
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

<400> 153
acaanaccca nganaggcca ctggccgtgg tgtcatggcc tccaaacatg aaagtgtcag 60
cttctgtctt tatgtcctca tctgacaact ctttaccatt tttatcctcg ctcagcagga 120
gcacatcaat aaagtccaaa gtcttggact tggccttggc ttggaggaag tcatcaacac 180
cctggctagt gaggggtcgg cgccgctcct ggatgacggc atctgtgaag togtgcacca 240
gtctgcaggc cctgtggaag cgccgtccac acggagtnag gaatt 285

<210> 154
<211> 333
<212> DNA
<213> Homo sapien

<400> 154
accacagtcc tggtgggcca gggcttcatg accctttctg tgaaaagcca tattatcacc 60
accccaaatt tttccttaaa tatctttaac tgaaggggtc agcctcttga ctgcaaagac 120
cctaagccgg ttacacagct aactcccact ggccctgatt tgtgaaattg ctgctgcctg 180
attggcacag gagtgcgaag tgttcagctc ccctcctcgg tggaaagaga ctctgatttg 240
agtttcacaa attctcgggc cacctcgtca ttgctcctct gaaataaaat ccggagaatg 300
gtcaggcctg tctcatccat atggatcttc cgg 333

<210> 155
<211> 308
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(308)
<223> n = A,T,C or G

<400> 155
actggaaata ataaaaccca catcacagtg ttgtgtcaaa gatcatcagg gcatggatgg 60
gaaagtgtct tgggaactgt aaagtgccta acacatgatc gatgatTTTT gttataatat 120
ttgaatcacg gtgcatacaa actctcctgc ctgctcctcc tgggccccag cccagagccc 180
atcacagctc actgctctgt tcatccaggc ccagcatgta gtggtgatt cttcttggt 240
gcttttagcc tccanaagtt tctctgaagc caaccaaacc tctangtgta aggcagctg 300

gccctggt 308

<210> 156
 <211> 295
 <212> DNA
 <213> Homo sapien

<400> 156
 accttgctcg gtgcttgga catattagga actcaaaata tgagatgata acagtgccta 60
 ttattgatta ctgagagaac tgtagacat ttagttgaag attttctaca caggaaactga 120
 gaataggaga ttatgttttg ccctcatatt ctctcctatc ctcttgcct cattctatgt 180
 ctaatatatt ctcaatcaaa taaggtttagc ataatcagga aatcgaccaa ataccaatat 240
 aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat 295

<210> 157
 <211> 126
 <212> DNA
 <213> Homo sapien

<400> 157
 acaagttttaa atagtgtgt cactgtgcat gtgctgaaat gtgaaatcca ccacatttct 60
 gaagagcaaa acaaattctg tcatgtaatc tctatcttgg gtcgtgggta tatctgtccc 120
 cttagt 126

<210> 158
 <211> 442
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(442)
 <223> n = A,T,C or G

<400> 158
 acccactggt cttggaaaca cccatcctta atacgatgat ttttctgtcg tgtgaaaatg 60
 aanccagcag gctgccccta gtcagtcctt ccttcagag aaaaagagat ttgagaaagt 120
 gcctgggtaa ttcaccatta atttctctcc ccaaactctc tgagtcttcc cttaatatatt 180
 ctggtggttc tgaccaaagc aggtcatggt ttgttgagca tttgggatcc cagtgaagta 240
 natgtttgta gccttgcata cttagccctt cccacgcaca aacggagtgg cagagtgggtg 300
 ccaaccctgt tttcccagtc cacgtagaca gattcacagt gcggaattct ggaagctgga 360
 nacagacggg ctctttgcag agccgggact ctgagangga catgagggcc tctgcctctg 420
 tgttcattct ctgatgtcct gt 442

<210> 159
 <211> 498
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(498)
 <223> n = A,T,C or G

<400> 159
 acttccaggt aacgttgttg tttccgttga gcctgaactg atgggtgacg ttgtaggttc 60
 tccaacaaga actgaggttg cagagcgggt aggggaagagt gctgttccag ttgcacctgg 120
 gctgctgtgg actgttgttg attcctcact acggcccaag gttgtggaac tggcanaaag 180

56

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gtgtgttgtt ggantttagc tcgggcggt gtggtaggtt gtgggctctt caacaggggc 240
tgctgtggtg ccgggangtg aangtggtgt gtcacttgag cttggccagc tctggaaagt 300
antanattct tcctgaaggc cagcgcttgt ggagctggca ngggtcantg ttgtgtgtaa 360
cgaaccagtg ctgctgtggg tgggtgtana tcctccacaa agcctgaagt tatggtgtcn 420
tcaggtaana atgtggtttc agtgtccctg ggcngctgtg gaaggttgta nattgtcacc 480
aagggaataa gctgtggt 498

```

```

<210> 160
<211> 380
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(380)
<223> n = A,T,C or G

```

```

<400> 160
acctgcatcc agcttccctg ccaaactcac aaggagacat caacctctag acagggaaac 60
agcttcagga tacttccagg agacagagcc accagcagca aaacaaatat tcccatgcct 120
ggagcatggc atagaggaag ctganaaatg tggggtctga ggaagccatt tgagtctggc 180
cactagacat ctcatcagcc acttgtgtga agagatgccc catgacccca gatgcctctc 240
ccacccttac ctccatctca cacacttgag ctttccactc tgtataattc taacatcctg 300
gagaaaaatg gcagtttgac cgaacctgtt cacaacggta gaggctgatt tctaacgaaa 360
cttgtagaat gaagcctgga 380

```

```

<210> 161
<211> 114
<212> DNA
<213> Homo sapien

```

```

<400> 161
actocacatc ccctctgagc aggcggttgt cgttcaaggt gtatttggcc ttgcctgtca 60
cactgtccac tggcccctta tccacttggt gottaatccc tcgaaagagc atgt 114

```

```

<210> 162
<211> 177
<212> DNA
<213> Homo sapien

```

```

<400> 162
actttctgaa tcgaatcaaa tgatacttag tgtagtttta atatcctcat atatatcaaa 60
gttttactac tctgataatt ttgtaaacca ggtaaccaga acatccagtc atacagcttt 120
tggtgatata taacttggca ataaccagc ctggtgatac ataaaactac tcactgt 177

```

```

<210> 163
<211> 137
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(137)
<223> n = A,T,C or G

```

```

<400> 163
catttataca gacaggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtagc 60
canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt 120

```

catcagcggc atgatgt 137

<210> 164
 <211> 469
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(469)
 <223> n = A,T,C or G

<400> 164
 cttatcacia tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta 60
 tgcaatgcat catgctatct catacctaata gagggagttc caggagattc aaccaggaaa 120
 tgcattgcat tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt 180
 gagacatgca cttgctacga aacagaaatt tcatgttgca cccttgtttc tacacctgtg 240
 ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg 300
 gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct 360
 tctagtaggc acagggctcc caggccaggc ctcatctctc tctggcctct aatagtcaat 420
 gattgtgtag ccattgcctat cagtaaaaag atntttgagc aaacacttt 469

<210> 165
 <211> 195
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(195)
 <223> n = A,T,C or G

<400> 165
 acagtttttt ataatatcgc acattgccgg cacttgtgtt cagtttcata aagctgggtg 60
 atccgctgtc atccactatt ccttggctag agtaaaaatt attcttatag cccatgtccc 120
 tgcaggccgc ccgcccgtag ttctcgttcc agtcgtcttg gcacacaggg tgccaggact 180
 tctcttgaga tgagt 195

<210> 166
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 166
 acatcttagt agtgtggcac atcagggggc catcagggtc acagtcactc atagcctcgc 60
 cgaggtcgga gtccacacca ccggtgtagg tgtgctcaat cttgggcttg gcgcccacct 120
 ttggagaagg gatattgctgc acacacatgt ccacaaagcc tgtgaactcg ccaaagaatt 180
 tttgcagacc agcctgagca aggggcggat gttcagcttc agctcctcct tcgtcaggtg 240
 gatgccaacc tcgtctangg tccgtgggaa gctgggtgtc acntcaccta caacctgggc 300
 gangatctta taaagaggct ccnagataaa ctccacgaaa cttctctggg agctgctagt 360
 nggggccttt ttggtgaact ttc 383

<210> 167

58

<211> 247
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(247)
 <223> n = A,T,C or G

<400> 167
 acagagccag accttggcca taaatgaanc agagattaag actaaacccc aagtcganat 60
 tggagcagaa actggagcaa gaagtgggcc tggggctgaa gtagagacca aggccactgc 120
 tatanccata cacagagcca actctcaggc caaggcnatg gttggggcag anccagagac 180
 tcaatctgan tccaaagtgg tggctggaac actggtcatg acanaggcag tgactctgac 240
 tgangtc 247

<210> 168
 <211> 273
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(273)
 <223> n = A,T,C or G

<400> 168
 acttctaagt tttctagaag tggaaggatt gtantcatcc tgaaaatggg tttacttcaa 60
 aatccctcan ccttggttctt cacnactgtc tatactgana gtgtcatggt tccacaaagg 120
 gctgacacct gagcctgnat tticactcoat ccttgagaag ccctttccag taggggtggc 180
 aattcccaac ttccttgcca caagcttccc aggcctttctc ccttggaana ctccagcttg 240
 agtcccagat acactcatgg gctgccctgg gca 273

<210> 169
 <211> 431
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(431)
 <223> n = A,T,C or G

<400> 169
 acagccttgg cttccccaaa ctccacagtc tcagtgcaga aagatcatct tccagcagtc 60
 agctcagacc aggggtcaaag gatgtgacat caacagtttc tggtttcaga acaggttcta 120
 ctactgtcaa atgaccccc atacttcttc aaaggctgtg gtaagttttg cacagggtgag 180
 ggcagcagaa aggggggtant tactgatgga caccatcttc tctgtatact ccaactgac 240
 cttgccatgg gcaaaggccc ctaccacaaa aacaatagga tcaactgctgg gcaccagctc 300
 acgcacatca ctgacaaccg ggatggaaaa agaantgcc aactttcatac atccaactgg 360
 aaagtgatct gatactggat tottaattac cttcaaaagc ttctgggggc catcagctgc 420
 tcgaacactg a 431

<210> 170
 <211> 266
 <212> DNA
 <213> Homo sapien

59

<220>
 <221> misc_feature
 <222> (1)...(266)
 <223> n = A,T,C or G

<400> 170
 acctgtgggc tgggctgtta tgcctgtgcc ggctgtctgaa agggagtcca gaggtggagc 60
 tcaaggagct ctgcaggcat ttgccaanc ctctccanag canagggagc aacctacact 120
 ccccgctaga aagacaccag attggagctc tgggaggggg agttggggtg ggcatttgat 180
 gtatacttgt cacctgaatg aangagccag agaggaanga gacgaanatg anattggcct 240
 tcaaagctag gggctctggca ggtgga 266

<210> 171
 <211> 1248
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1248)
 <223> n = A,T,C or G

<400> 171
 ggcagccaaa tcataaacgg cgaggactgc agcccgcact cgcagccctg gcaggcggca 60
 ctgggtcatgg aaaacgaatt gttctgtctg ggctgccttg tgcacccgca gtgggtgctg 120
 tcagccgcac actgtttcca gaagtgagtg cagagctcct acaccatcgg gctgggcctg 180
 cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta 240
 cggcaccacag agtacaacag acccttgctc gctaacgacc tcatgtcat caagttggac 300
 gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgcctacc 360
 gcggggaaact cttgcctcgt ttctggctgg ggtctgtctg cgaacggcag aatgcctacc 420
 gtgctgcagt gcgtgaacgt gtcgggtggtg tctgaggagg tctgcagtaa gctctatgac 480
 ccgctgtacc accccagcat gttctgcgcc ggccggagggc aagaccagaa ggactcctgc 540
 aacgggtgact ctggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc 600
 ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtc acaccaacct ctgcaaattc 660
 actgagtggga tagagaaaac cgtccaggcc agttaactct ggggactggg aacctatgaa 720
 attgaccccc aaatacatcc tgcggaagga attcaggaat atctgttccc agcccctcct 780
 ccctcaggcc caggagtcca ggcccccagc ccctcctccc tcaaaccaag ggtacagatc 840
 ccagccccct cctccctcag acccaggagt ccagaccccc cagccccctc tccctcagac 900
 ccaggagtcc agcccctcct ccctcagacc caggagtcca gacccccag cccctcctcc 960
 ctcagaccca ggggtccagg cccccaaccc ctccctccctc agactcagag gtocaaagccc 1020
 ccaaccntc attccccaga cccagaggtc cagggtccag cccctcntcc ctcagaccca 1080
 gcggtccaat gccacctaga ctntccctgt acacagtgcc cccttgtggc acgttgacct 1140
 aaccttacca gttggttttt catTTTTngt ccctttcccc tagatccaga aataaagttt 1200
 aagagaagng caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1248

<210> 172
 <211> 159
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT
 <222> (1)...(159)
 <223> Xaa = Any Amino Acid

<400> 172
 Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
 1 5 10 15

60

Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
 20 25 30
 Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
 35 40 45
 Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
 50 55 60
 Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
 65 70 75 80
 Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe
 85 90 95
 Cys Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser
 100 105 110
 Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe
 115 120 125
 Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn
 130 135 140
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 145 150 155

<210> 173
 <211> 1265
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1265)
 <223> n = A,T,C or G

<400> 173
 ggcagcccgc actcgcagcc ctggcaggcg gcaotgggtca tggaaaacga attgtttctgc 60
 tcgggocgtcc tgggtgcatcc gcagtgggtg ctgtcagccg cacactgttt ccagaactcc 120
 tacaccatcg ggctgggccc gcacagtctt gaggccgacc aagagccagg gagccagatg 180
 gtggagggccg gcctctccgt acggcaccca gagtacaaca gacccttgct cgctaacgac 240
 ctcatgtctca tcaagttgga cgaatccgtg tccgagtctg acaccatccg gagcatcagc 300
 attgcttcgc agtgccctac cgcggggaac tcttgccctg tttctggctg gggctctgctg 360
 gcgaacgggtg agctcacggg tgtgtgtctg cctcttcaa ggaggtcctc tgcccagtcg 420
 cgggggctga cccagagctc tgcgtcccag gcagaatgcc taccgtgctg cagtgcgtga 480
 acgtgtcggg ggtgtctgag gaggtctgca gtaagctcta tgaccgctg taccacca 540
 gcatgtttctg cgcggcgga gggcaagacc agaaggactc ctgcaacggt gactctggg 600
 ggcccctgat ctgcaacggg tacttgaggg gccttgtgtc tttcggaata gcccctgtg 660
 gccaaagttg cgtgccagg gtctacacca acctctgcaa attcactgag tggatagaga 720
 aaaccgtcca ggccagttaa ctctggggac tgggaaccca tgaaattgac ccccaaatac 780
 atcctgogga aggaattcag gaatatctgt tcccagcccc tcctccctca ggcccaggag 840
 tccaggcccc cagcccctcc tccctcaaac caagggtaca gatcccagc cctcctccc 900
 tcagaccagc gagtccagac ccccagcccc ctctccctc agaccagga gtccagcccc 960
 tcctcctca gaccaggag tccagacccc ccagcccctc ctccctcaga cccagggtt 1020
 gagggcccca acccctcctc ctccagagtc agagggtccaa gcccacaacc cctcgttccc 1080
 cagaccacga ggttnnaggtc ccagcccctc ttcctcaga cccagnggtc caatgccacc 1140
 tagattttcc ctgnacacag tgccccttg tggngangttg acccaacctt accagttggg 1200
 ttttcatttt tngtcccttt cccctagatc cagaaataaa gtttaagaga nngncaaaaa 1260
 aaaaa 1265

<210> 174
 <211> 1459
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1459)
 <223> n = A,T,C or G

<400> 174

ggtcagccgc	acactgtttc	cagaagtgag	tgcagagctc	ctacaccatc	gggctgggccc	60
tgcacagtct	tgaggccgac	caagagccag	ggagccagat	ggtggaggcc	agcctctccg	120
tacggcacc	agagtacaac	agacccttgc	tcgctaacga	cctcatgctc	atcaagttgg	180
acgaatccgt	gtccgagtct	gacaccatcc	ggagcatcag	cattgcttcg	cagtgcctta	240
ccgcggggaa	ctcttgccctc	gtttctggct	ggggtctgct	ggcgaacggg	gagctcacgg	300
gtgtgtgtct	gccctcttca	aggaggtcct	ctgcccagtc	gcgggggctg	acccagagct	360
ctgcgtccca	ggcagaatgc	ctaccgtgct	gcagtgcgtg	aacgtgtcgg	tgggtgtctga	420
ngaggctctg	antaagctct	atgaccgcct	gtaccacccc	ancatgttct	gcgccggcgg	480
agggcaagac	cagaaggact	cctgcaacgt	gagagagggg	aaaggggagg	gcaggcgact	540
cagggaaggg	tggagaaggg	ggagacagag	acacacaggg	ccgcatggcg	agatgcagag	600
atggagagac	acacagggag	acagtgacaa	ctagagagag	aaactgagag	aaacagagaa	660
ataaacacag	gaataaagag	aagcaaagga	agagagaaac	agaaacagac	atggggaggc	720
agaaacacac	acacatagaa	atgcagttga	ccttccaaca	gcatggggcc	tgaggggcgg	780
gacctccacc	caatagaaaa	tcctcttata	acttttgact	ccccaaaaac	ctgactagaa	840
atagcctact	gttgacgggg	agccttacca	ataacataaa	tagtcgattt	atgcatacgt	900
tttatgcatt	catgatatac	ctttgttgga	atTTTTtgat	atTTTctaagc	tacacagttc	960
gtctgtgaat	TTTTTTaaat	tgTTTgcaact	ctcctaaaaat	TTTTTctgatg	TgTTTattga	1020
aaaaatccaa	gtataagtgg	actTgtgcat	tcaaaccagg	gTTgttcaag	ggtcaactgt	1080
gtacccagag	ggaaacagtg	acacagattc	atagagggtga	aacacgaaga	gaaacaggaa	1140
aaatcaagac	tctacaaaga	ggctgggcag	ggtgggtcat	gcctgtaatc	ccagcacttt	1200
gggagggcag	gcaggcagat	cacttgagggt	aaggagttca	agaccagcct	ggccaaaatg	1260
gtgaaatcct	gtctgtacta	aaaatacaaaa	agtttagctgg	atatggtggc	aggcgccctgt	1320
aatcccagct	actTgggagg	ctgaggcagg	agaattgctt	gaatatggga	ggcagagggtt	1380
gaagtgagtt	gagatcacac	cactatactc	cagctggggc	aacagagtaa	gactctgtct	1440
caaaaaaaaa	aaaaaaaaaa					1459

<210> 175
 <211> 1167
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1167)
 <223> n = A,T,C or G

<400> 175

gcgcagccct	ggcaggcggc	actggtcatg	gaaaacgaat	tgTtctgctc	gggcgtctctg	60
gtgcacocgc	agtgggtgct	gtcagccgca	cactgtttcc	agaactccta	caccatcggg	120
ctgggcctgc	acagtcttga	ggccgaccaa	gagccaggga	gccagatggg	ggaggccagc	180
ctctccgtac	ggcaccacaga	gtacaacaga	ctcttgctcg	ctaaccgacct	catgctcatc	240
aagttggacg	aatccgtgtc	cgagtctgac	accatccgga	gcatcagcat	tgcttgcgag	300
tgccctacog	cggggaactc	ttgcctcgtn	tctggctggg	gtctgctggc	gaacggcaga	360
atgcctacog	tgctgcactg	cgtgaacgtg	togggtggtg	ctgaggangt	ctgcagtaag	420
ctctatgacc	cgcgtgacca	cccagcatg	ttctgcgccg	gcggagggca	agaccagaag	480
gactcctgca	acggtgactc	tggggggccc	ctgatctgca	acgggtactt	gcagggcctt	540
gtgtctttcg	gaaaagcccc	gtgtggccaa	cttggcgtgc	cagggtgtcta	caccaacctc	600
tgcaaattca	ctgagtggat	agagaaaacc	gtocagncca	gttaactctg	gggactggga	660
acccatgaaa	ttgacccccca	aatacatcct	gcggaangaa	ttcaggaata	tctgttccca	720
gcccctctct	cctcaggccc	aggagtccag	gccccagcc	cctcctccct	caaaccaagg	780
gtacagatcc	ccagccctc	ctccctcaga	cccaggagtc	cagaccccc	agccctcnt	840
ccntcagacc	caggagtcca	gcccctctct	cntcagacgc	aggagtccag	accccccagc	900

62

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ccntcntccg tcagacccag ggggtgcaggc ccccaacccc tcntccntca gaggcagagg 960
tccaagcccc caacccctcg ttccccagac ccagaggtnc aggtcccagc cctcctccc 1020
tcagacccag cgggtccaatg ccacctagan tntccctgta cacagtgcc ccttggtggca 1080
ngttgaccca accttaccag ttggtttttc attttttgtc cctttccctt agatccagaa 1140
ataaagtnta agagaagcgc aaaaaaa 1167

```

<210> 176
 <211> 205
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT
 <222> (1)...(205)
 <223> Xaa = Any Amino Acid

```

<400> 176
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1      5      10      15
Val Leu Ser Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
      20      25      30
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
      35      40      45
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu
      50      55      60
Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
      65      70      75      80
Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
      85      90      95
Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met
      100     105     110
Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val
      115     120     125
Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala
      130     135     140
Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly
      145     150     155     160
Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys
      165     170     175
Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys
      180     185     190
Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser
      195     200     205

```

<210> 177
 <211> 1119
 <212> DNA
 <213> Homo sapien

```

<400> 177
gogcactcgc agccctggca ggcggcactg gtcattgaaa acgaattggt ctgctcgggc 60
gtcctggtgc atccgcagtg ggtgctgtca gccgcacact gtttccagaa ctctacacc 120
atcgggctgg gcctgcacag tcttgaggcc gaccaagagc cagggagcca gatggtggag 180
gccagcctct ccgtacggca ccagagtagc aacagaccct tgctcgctaa cgacctcatg 240
ctcatcaagt tggacgaatc cgtgtccgag tctgacacca tccggagcat cagcattgct 300
togcagtgcc ctaccgcggg gaactcttgc ctcgtttctg gctggggtct gctggcgaac 360
gatgctgtga ttgccatcca gtcccagact gtgggaggct gggagtgtga gaagctttcc 420
caaccctggc aggggtgtac catttcggca acttccagtg caaggacgtc ctgctgcac 480

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63

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ctcactgggt gctcactact gctcactgca tcacccggaa cactgtgata aactagccag 540
caccatagtt ctccgaagtc agactatcat gattactgtg ttgactgtgc tgtctattgt 600
actaaccatg ccgatgttta ggtgaaatta gcgtcacttg gcctcaacca tcttggtatc 660
cagttatcct cactgaattg agatttcctg cttcagtgtc agccattccc acataatttc 720
tgacctacag aggtgaggga tcatatagct cttcaaggat gctggtactc cctccacaaa 780
ttcattttctc ctggtttagt gaaagggtgcg ccctctggag cctcccaggg tgggtgtgca 840
ggtcacaatg atgaatgtat gatcgtgttc ccattaccca aagcctttaa atccctcatg 900
ctcagtacac cagggcaggt ctagcatttc ttcatttagt gtatgctgtc cattcatgca 960
accacctcag gactcctgga ttctctgcct agttgagctc ctgcatgctg cctccttggg 1020
gaggtgaggg agagggccca tggttcaatg ggatctgtgc agttgtaaca cattaggtgc 1080
ttaataaaca gaagctgtga tgtaaaaaa aaaaaaaaa 1119

```

<210> 178
 <211> 164
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT
 <222> (1)...(164)
 <223> Xaa = Any Amino Acid

```

<400> 178
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
1      5      10      15
Val Leu Ser Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
20     25     30
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
35     40     45
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu
50     55     60
Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
65     70     75     80
Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
85     90     95
Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Asp Ala Val
100    105    110
Ile Ala Ile Gln Ser Xaa Thr Val Gly Gly Trp Glu Cys Glu Lys Leu
115    120    125
Ser Gln Pro Trp Gln Gly Cys Thr Ile Ser Ala Thr Ser Ser Ala Arg
130    135    140
Thr Ser Cys Cys Ile Leu Thr Gly Cys Ser Leu Leu Leu Thr Ala Ser
145    150    155    160
Pro Gly Thr Leu

```

<210> 179
 <211> 250
 <212> DNA
 <213> Homo sapien

```

<400> 179
ctggagtgcc ttggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcacct 60
ccagctgccc ccggccgggg gatgcgaggg tcggagcacc cttgcccggc tgtgattgct 120
gccaggcact gttcatctca gctttttctgt ccctttgctc ccggcaagcg cttctgctga 180
aagttcatat ctggagcctg atgtottaac gaataaaggt cccatgctcc acccgaaaaa 240
aaaaaaaaa 280

```

64

<210> 180
 <211> 202
 <212> DNA
 <213> Homo sapien

<400> 180
 actagtccag tgtggtggaa ttccattgtg ttggggcccaa cacaatggct acctttaaca 60
 tcaaccagac cccgcccctg cccgtgcccc acgctgctgc taacgacagt atgatgctta 120
 ctctgctact cggaaactat ttttatgtaa ttaatgtatg ctttcttggt tataaatgcc 180
 tgattttaaaa aaaaaaaaaa aa 202

<210> 181
 <211> 558
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(558)
 <223> n = A,T,C or G

<400> 181
 tccytthtkt naggtthtkk agacamccck agacctwaan ctgtgtcaca gacttcyngg 60
 aatgtthtagg cagtgtctagt aatttcytcg taatgattct gttattactt tcctnattct 120
 ttatttctct ttcttctgaa gattaatgaa gttgaaaatt gaggtggata aatacaaaaa 180
 ggtagtgtag tagtataagt atctaagtgc agatgaaagt gtgttatata tatccattca 240
 aaattatgca agtttagtaat tactcagggt taactaaatt actttaatat gctgttgaac 300
 ctactctgtt ccttggctag aaaaaattat aaacaggact ttgttagttt gggaagccaa 360
 attgataata ttctatgttc taaaagttgg gctatacata aattattaag aaatatggaw 420
 ttttattccc aggaatatgg kgttcatttt atgaatatta cscrggatag awgtwtgagt 480
 aaaaycagtt ttggtwaata ygtwaatatg tcmtaaataa acaakgcttt gacttatttc 540
 caaaaaaaaa aaaaaaaaaa 558

<210> 182
 <211> 479
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(479)
 <223> n = A,T,C or G

<400> 182
 acagggwttk grggatgcta agsccccrga rwtggtttga tccaaccctg gcttwttttc 60
 agaggggaaa atggggccta gaagttacag mscatytagy tgggtgcmtg gcacccctgg 120
 cstcacacag astcccagat agctgggact acaggcacac agtcaactgaa gcaggccctg 180
 ttwgcaattc acgttgccac ctccaaactta aacattcttc atatgtgatg tccttagtca 240
 ctaagggttaa actttccac ccagaaaagg caacttagat aaaatcttag agtactttca 300
 tactmttcta agtcctcttc cagcctcact kkgagtcctm cytgggggtt gataggaant 360
 ntctcttggc tttctcaata aartctctat ycatctcatg ttttaatttg tacgcataara 420
 awtgstgara aaattaaaaat gttctggtty macttttaaaa aaaaaaaaaa aaaaaaaaaa 479

<210> 183
 <211> 384
 <212> DNA
 <213> Homo sapien

65

```

<400> 183
aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactgggtgcc      60
agtaccagta ccaataacag tgccagtgcc agtgccagca ccagtgggtgg cttcagtgcct      120
ggtgccagcc tgaccgccac tctcacatct gggctcttcg ctggccttgg tggagctgggt      180
gccagcacca gtggcagctc tgggtgcctgt ggtttctcct acaagtgaga ttttagatat      240
tgттаатсст gccagtcttt ctcttcaagc caggggtgcat cctcagaaac ctactcaaca      300
cagcactcta ggcagccact atcaatcaat tgaagttgac actctgcatt aratctatct      360
gccatttcaa aaaaaaaaaa aaaa                                     384

```

```

<210> 184
<211> 496
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(496)
<223> n = A,T,C or G

```

```

<400> 184
accgaattgg gaccgctggc ttataagcga tcatgttynt ccrgtatkcac ctcaacgagc      60
agggagatcg agtctatacg ctgaagaaat ttgaccgat gggacaacag acctgctcag      120
cccacctcgc tcggttctcc ccagatgaca aatactctsg acaccgaatc accatcaaga      180
aacgcttcaa ggtgctcatg acccagcaac cgcgcctgt cctctgaggg tcccttaaac      240
tgatgtcttt tctgccacct gttaccctc ggagactccg taaccaaact cttcggactg      300
tgagccctga tgcctttttg ccagccatac tctttggcat ccagtctctc gtggcgattg      360
attatgcttg tgtgaggcaa tcatggtggc atcacccata aagggaacac atttgacttt      420
tttttctcat attttaaatt actacmagaw tattwmagaw waaatgawtt gaaaaactst      480
taaaaaaaaa aaaaaa                                           496

```

```

<210> 185
<211> 384
<212> DNA
<213> Homo sapien

```

```

<400> 185
gctggtagcc tatggcgkgg cccacggagg ggctcctgag gccacggrac agtgacttcc      60
caagtatcyt ggcsgcgcgc ttctaccgtc cctacctgca gatcttcggg cagattcccc      120
aggaggacat ggacgtggcc ctcatggagc acagcaactg ytcgtcggag cccggcttct      180
gggcacaccc tcctggggcc caggcgggca cctgcgtctc ccagtatgcc aactggctgg      240
tggtgctgct cctcgtcatc ttctgctcgt tggccaacat cctgctggtc aacttgctca      300
ttgccatggt cagttacaca ttcggaagag tacagggcaa cagcgatctc tactgggaag      360
gcgcagcggt accgcctcat ccgg                                     384

```

```

<210> 186
<211> 577
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(577)
<223> n = A,T,C or G

```

```

<400> 186
gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggcctctcgc ttcataccgc      60
tnccatcgtc atactgtagg ttggccacca cytcctggca tcttggggcg gcntaatatt      120
ccaggaaact ctcaatcaag tcaccgtcga tgaaacctgt gggctgggtc tgtcttcgcg      180

```

tccgtgtgaa	aggatctccc	agaaggagtg	ctcgatcttc	cccacacttt	tgatgacttt	240
attgagtcga	ttctgcatgt	ccagcaggag	gttgtaccag	ctctctgaca	gtgaggcac	300
cagccctatc	atgccgttga	mcgtgccgaa	garcaccgag	ccttgtgtgg	gggkkaagt	360
ctcaccacaga	ttctgcatta	ccagagagcc	gtggcaaaag	acattgacaa	actcgcccag	420
gtggaaaaag	amcamctcct	ggargtgctn	gccgctcctc	gtcmgttggt	ggcagcgctw	480
tccttttgac	acacaaacaa	gttaaaggca	ttttcagccc	ccagaaantt	gtcatcatcc	540
aagatntcgc	acagcactna	tccagttggg	attaaat			577

<210> 187
 <211> 534
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(534)
 <223> n = A,T,C or G

<400> 187						
aacatcttcc	tgtataatgc	tgtgtaatat	cgatccgatn	ttgtctgstg	agaatycatw	60
actkggaaaa	gmaacattaa	agcctggaca	ctggatttaa	aattcacaat	atgcaacact	120
ttaaacagtg	tgtcaatctg	ctcccyynac	tttgtcatca	ccagtctggg	aakaagggta	180
tgccctattc	acacctgtta	aaagggcgct	aagcattttt	gattcaacat	cttttttttt	240
gacacaagtc	cgaaaaaagc	aaaagtaaac	agttatyaat	ttgttagcca	attcactttc	300
ttcatgggac	agagccatyt	gatttaaaaa	gcaaattgca	taatattgag	cttygggagc	360
tgatatttga	gcggaagagt	agcctttcta	cttcaccaga	cacaactccc	ttcatatttg	420
ggatgttnac	naaagtwatg	tctctwacag	atgggatgct	tttgtggcaa	ttctgttctg	480
aggatctccc	agtttatatta	ccacttgcac	aagaaggcgt	tttcttcctc	aggc	534

<210> 188
 <211> 761
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(761)
 <223> n = A,T,C or G

<400> 188						
agaaaccagt	atctctnaaa	acaacctctc	ataccttgtg	gacctaat	ttgtgtgcgtg	60
tgtgtgtgcg	cgcataattat	atagacaggc	acatcttttt	tactttttgta	aaagcttatg	120
cctcttttgg	atctatatct	gtgaaagttt	taatgatctg	ccataatgtc	ttggggacct	180
ttgtcttctg	tgtaaatgg	actagagaaa	acacctatnt	tatgagtcaa	tctagttingt	240
tttattcgac	atgaaggaaa	tttccagatn	acaacactna	caaactctcc	ctkgackarg	300
ggggacaaag	aaaagcaaaa	ctgamcataa	raaacaatwa	cctgggtgaga	arttgcataa	360
acagaaatwr	ggtagtatat	tgaarnacag	catcattaaa	rmgttwtktt	wttctccctt	420
gcaaaaaaca	tgtacngact	tcccgttgag	taatgccaa	ttgttttttt	tatnataaaa	480
cttgcccttc	attacatggt	tnaaagtgg	gtgggtggcc	aaaatattga	aatgatggaa	540
ctgactgata	aagctgtaca	aataagcagt	gtgcctaaca	agcaacacag	taatgttgac	600
atgcttaatt	cacaaatgct	aatttcatta	taaatgtttg	ctaaaataca	ctttgaacta	660
tttttctgtn	ttcccagagc	tgagatntta	gattttatgt	agtatnaagt	gaaaaantac	720
gaaaataata	acattgaaga	aaaananaaa	aaanaaaaaa	a		761

<210> 189
 <211> 482
 <212> DNA
 <213> Homo sapien

67

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

<400> 189
 tttttttttt tttgccgatn ctactatttt attgcaggan gtgggggtgt atgcaccgca 60
 caccggggct atnagaagca agaaggaagg agggagggca cagccccttg ctgagcaaca 120
 aagccgcctg ctgccttctc tgtctgtctc ctggtgcagg cacatgggga gaccttcccc 180
 aaggcagggg ccaccagtcc aggggtggga atacaggggg tgggagtgt gcataagaag 240
 tgataggcac aggccacccg gtacagaccc ctcggtcctt gacaggtnga tttcgaccag 300
 gtcattgtgc cctgcccagg cacagcgtan atctggaaaa gacagaatgc tttccttttc 360
 aaatttggct ngtcatngaa ngggcanttt tccaanttng gctnngtctt ggtacncttg 420
 gttcggccca gctccncgtc caaaaaantat tcaccnctt cnaattgct tgcnggnccc 480
 cc 482

<210> 190
 <211> 471
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(471)
 <223> n = A,T,C or G

<400> 190
 tttttttttt tttfaaaaca gtttttcaca acaaaattta ttagaagaat agtggttttg 60
 aaaactctcg catccagtga gaactaccat acaccacatt acagctngga atgtinctca 120
 aatgtctggt caaatgatac aatggaacca ttcaatctta cacatgcacg aaagaacaag 180
 cgcttttgac atacaatgca caaaaaaaaa aggggggggg gaccacatgg attaaaaattt 240
 taagtactca tacaatacat taagacacag ttctagtcca gtcnaaaatc agaactgcnt 300
 tgaaaaattt catgtatgca atccaaccaa agaacttnat tggatgatcat gantnctcta 360
 ctacatcnac cttgatcatt gccaggaacn aaaagttnaa ancacncngt acaaaaaanaa 420
 tctgtaattn anttcaacct ccgtaacngaa aaatnttntt tatacactcc c 471

<210> 191
 <211> 402
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(402)
 <223> n = A,T,C or G

<400> 191
 gagggattga aggtctgttc tastgtoggm ctgttcagcc accaactcta acaagttgct 60
 gtcttccact cactgtctgt aagcttttta acccagacwg tatcttcata aatagaacaa 120
 attcttcacc agtcacatct tctaggacct ttttggattc agttagtata agctcttcca 180
 ctctctttgt taagacttca tctggtaaag tcttaagttt tgtagaaagg aattyaattg 240
 ctcgttctct aacaatgtcc tctccttgaa gtatttggct gaacaaccca cctaaagtcc 300
 ctttgtgcat ccattttaaa tatacttaat agggcattgk tncactaggt taaattctgc 360
 aagagtcacg tgtctgcaaa agttgogtta gtatatctgc ca 402

<210> 192
 <211> 601

68

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(601)
 <223> n = A,T,C or G

<400> 192
 gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact 60
 ggtctacccc acatgggagc agcatgccgt agntatataa ggatcattccc tgagtcagac 120
 atgcytyttt gaytaccgtg tgccaagtgc tgggtgattct yaacacacyt ccatcccggt 180
 cttttgtgga aaaactggca cttktctgga actagcarga catcacttac aaattcaccc 240
 acgagacact tgaaagggtg aacaaagcga ytccttgcat gctttttgtc cctccggcac 300
 cagttgtcaa tactaaccgc ctggtttgcc tccatcacat ttgtgatctg tagctctgga 360
 tacatctcct gacagtactg aagaacttct tcttttgttt caaaagcarg tcttggtgcc 420
 tggtggatca ggttcccat tcccagtcyg aatgttcaca tggcatattt wacttcccac 480
 aaaacattgc gatttgaggc tcagcaacag caaatcctgt tccggcattg gctgcaagag 540
 cctcgatgta gccggccagc gccaaaggcag gcgcctgtgag cccaccagc agcagaagca 600
 g 601

<210> 193
 <211> 608
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(608)
 <223> n = A,T,C or G

<400> 193
 atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtcact 60
 ggtcccgctg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcytt 120
 cccaacgcag gcagmagcgg gscgggtcaa tgaactccay tcgtggcttg gggtkgacgg 180
 tkaagtgcag gaagaggctg accacctcgc ggtccaccag gatgcccgac tgtgcgggac 240
 ctgcagcgaa actcctcgat ggtcatgagc gggaagcgaa tgaggcccag ggccttgccc 300
 agaaccttcc gcctgttctc tggcgctacc tgcagctgct gccgctgaca ctgggcctcg 360
 gaccagcgga caaacggcrt tgaacagccg cacctcacgg atgccagtg tgtcgcgctc 420
 caggammgsc accagcgtgt ccagggtcaat gtccggtgaag ccctccgcgg gtrattggcgt 480
 ctgcagtgtt tttgtcgatg ttctccaggc acaggctggc cagctgcggt tcatcgaaga 540
 gtcgcgcctg cgtgagcagc atgaaggcgt tgtcggctcg cagttcttct tcagggaactc 600
 cagcgaat 608

<210> 194
 <211> 392
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(392)
 <223> n = A,T,C or G

<400> 194
 gaacggctgg accttgctc gcattgtgct tgctggcagg gaataccttg gcaagcagyt 60
 ccagtcagag cagccccaga ccgctgccgc ccgaagctaa gcctgcctct ggccttcccc 120
 tccgcctcaa tgcagaacca gtagtgggag cactgtgttt agagttaaga gtgaacactg 180

tttgattttta	cttggggaatt	tcctctgtta	tatagctttt	cccaatgcta	atttccaaac	240
aacaacaaca	aaataacatg	tttgccctgtt	aagttgtata	aaagtaggtg	attctgtatt	300
taaagaaaat	attactgtta	catatactgc	ttgcaatttc	tgtattttatt	gktnctstgg	360
aaataaatat	agttattaaa	ggttgtcant	cc			392

<210> 195
 <211> 502
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(502)
 <223> n = A,T,C or G

ccsttkgagg	ggtkaggkyc	cagttyccga	gtggaagaaa	caggccagga	gaagtgcgtg	60
ccgagctgag	gcagatgttc	ccacagtgac	ccccagagcc	stgggstata	gtytctgacc	120
cctcncaagg	aaagaccacs	ttctggggac	atgggctgga	gggcaggacc	tagaggcacc	180
aaggggaagg	cccattccgg	ggstgttccc	cgaggaggaa	gggaaggggc	tctgtgtgcc	240
ccccasgagg	aagaggccct	gagtcctggg	atcagacacc	ccttcacgtg	tatccccaca	300
caaatgcaag	ctcaccaagg	tcccctctca	gtccccttcc	stacaccctg	amcggccact	360
gscscacacc	caccagagc	acgccaccog	ccatggggar	tgtgctcaag	gartcgcnng	420
gcarcgtgga	catctngtcc	cagaaggggg	cagaatctcc	aatagangga	ctgarcmstt	480
gctnanaaaa	aaaaanaaaa	aa				502

<210> 196
 <211> 665
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(665)
 <223> n = A,T,C or G

ggttacttgg	tttctattgcc	accacttagt	ggatgtcatt	tagaaccatt	ttgtctgctc	60
cctctggaag	ccttgcgcag	agcggacttt	gtaattgttg	gagaataact	gctgaatttt	120
wagctgtttk	gagttgatts	gcaccaactgc	accacaaact	tcaatatgaa	aacyawttga	180
actwatthtat	tatcttgtga	aaagtataac	aatgaaaatt	ttgttcatat	tgtattkcatc	240
aagtatgatg	aaaagcaawa	gatatatatt	cttttattat	gttaaattat	gattgccatt	300
attaatcggc	aaaatgtgga	gtgtatgttc	ttttcacagt	aatatatgcc	ttttgtaact	360
tcacttgggt	atthttattgt	aaatgartta	caaaattctt	aatttaagar	aatggatgtg	420
watattttatt	tcattaatttt	ctttcctkgt	ttacgtwaat	tttgaaaaga	wtgcatgatt	480
tcttgacaga	aatcgatctt	gatgctgtgg	aagtagtttg	acccacatcc	ctatgagttt	540
ttcttagaat	gtataaagg	tgtagcccat	cnaacttcaa	agaaaaaaat	gaccacatac	600
tttgcaatca	ggctgaaatg	tggcatgctn	ttctaattcc	aactttataa	actagcaaan	660
aagtg						665

<210> 197
 <211> 492
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(492)

70

<223> n = A,T,C or G

<400> 197

tttntttttt	ttttttttgc	aggaaggatt	ccattttattg	tggatgcatt	ttcacaatat	60
atgtttattg	gagcgatcca	ttatcagtga	aaagtatcaa	gtgtttataa	natttttagg	120
aaggcagatt	cacagaacat	gctngtcngc	ttgcagtttt	acctcgtana	gatnacagag	180
aattatagtc	naaccagtaa	acnaggaatt	tactttttcaa	aagattaaat	ccaaactgaa	240
caaaattcta	ccctgaaact	tactccatcc	aaatattgga	ataanagtca	gcagtgatac	300
attctcttct	gaacttttaga	ttttctagaa	aaatatgtaa	tagtgatcag	gaagagctct	360
tgttcaaaag	tacaacnaag	caatgttccc	ttaccatagg	ccttaattca	aactttgatc	420
catttcactc	ccatcacggg	agtcaatgct	acctgggaca	cttgatattt	gttcatnctg	480
ancntggctt	aa					492

<210> 198

<211> 478

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(478)

<223> n = A,T,C or G

<400> 198

tttnttttgn	atttcantct	gtannaanta	ttttcattat	gtttattana	aaaatatnaa	60
tgtntccacn	acaaatcatn	ttacntnagt	aagaggccan	ctacattgta	caacatacac	120
tgagtatat	ttgaaaagga	caagttttaa	gtanacncat	attgccganc	atanacattt	180
tatacatggc	ttgattgata	tttagcacag	canaaaactga	gtgagttacc	agaaanaaat	240
nataatgttc	aatcngattt	aagatacaaa	acagatccta	tggtacatan	catcntgtag	300
gagttgtggc	tttatgttta	ctgaaagtca	atgcagttcc	tgtacaaaga	gatggccgta	360
agcattctag	tacctctact	ccatgggttaa	gaatcgtaca	cttatgttta	catatgtnta	420
gggtaagaat	tgtgttaagt	naantttatg	agaggtccan	gagaaaaatt	tgatncaa	478

<210> 199

<211> 482

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(482)

<223> n = A,T,C or G

<400> 199

agtgacttgt	cctccaacaa	aacccttga	tcaagtttgt	ggcactgaca	atcagaccta	60
tgctagtccc	tgtcatctat	tcgctactaa	atgcagactg	gaggggacca	aaaaggggca	120
tcaactccag	ctggattatt	ttggagcctg	caaactctatt	cctacttgta	cggactttga	180
agtgattcag	tttcctctac	ggatgagaga	ctggctcaag	aatatcctca	tgcagcttta	240
tgaagccnac	tctgaacacg	ctggttatct	nagatgagaa	ncagagaaat	aaagtcnaga	300
aaattttacct	ggangaaaag	aggctttngg	ctggggacca	tcccattgaa	ccttctctta	360
anggacttta	agaanaaaact	accacatgtn	tgtngtatcc	tggtgccnng	cogtttantg	420
aacntngacn	ncacccttnt	ggaatanant	cttgacngcn	tcctgaactt	gctcctctgc	480
ga						482

<210> 200

<211> 270

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(583)
 <223> n = A,T,C or G

<400> 203
 tttttttttt ttttttttga cccccctctt ataaaaaaca agttaccatt ttattttact 60
 tacacatatt ttttttataa ttggtattag atattcaaaa ggcagctttt aaaatcaaac 120
 taaatggaaa ctgccttaga tacataattc ttaggaatta gcttaaaatc tgcctaaagt 180
 gaaaatcttc tctagctctt ttgactgtaa atttttgact cttgtaaaac atccaaattc 240
 atttttcttg tcttttaaaat tatctaactt ttccattttt tccctattcc aagtcaattt 300
 gcttctctag cctcatttcc tagctcttat ctactattag taagtggctt ttttctctaa 360
 agggaanaa ggaagagana atggcacaca aaacaaacat tttatattca tttttctacc 420
 tacgttaata aaatagcatt ttgtgaagcc agctcaaaag aaggcttaga tccttttatg 480
 tccatttttag tcactaaacg atatcnaaag tgccagaatg caaaagggtt gtgaacattt 540
 attcaaaagc taatataaga tatttcacat actcatcttt ctg 583

<210> 204
 <211> 589
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(589)
 <223> n = A,T,C or G

<400> 204
 ttttttttnt tttttttttt ttttttnctc ttcttttttt ttganaatga ggatcgagtt 60
 ttctactctc tagatagggc atgaagaaaa ctcatctttc cagctttaaa ataacaatca 120
 aatctcttat gctatatcat attttaagtt aaactaatga gtcactggct tatcttctcc 180
 tgaaggaaat ctgttcattc ttctcattca tatagttata tcaagtaact ccttgcata 240
 tgagagggtt ttcttctcta ttacacata ttttccatg tgaatttgta tcaaaccctt 300
 attttcatgc aaactagaaa ataatgtntt cttttgcata agagaagaga acaatatnag 360
 cattacaaaa ctgctcaa atgtttgttaa gnttatccat tataattagt tnggcaggag 420
 ctaatacaaa tcacatttac ngacnagcaa taataaaaact gaagtaccag ttaaataatcc 480
 aaaataatta aaggaacatt tttagcctgg gtataattag ctaattcact ttacaagcat 540
 ttatttnagaa tgaattcaca tgttattatt cnttagccca acacaatgg 589

<210> 205
 <211> 545
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(545)
 <223> n = A,T,C or G

<400> 205
 tttttntttt ttttttcagt aataatcaga acaatattta tttttatatt taaaattcat 60
 agaaaagtgc cttacattta ataaaagttt gtttctcaaa gtgatcagag gaattagata 120
 tngtcttgaa caccaatatt aatttgagga aaatacacca aaatacatta agtaaattat 180
 ttaagatcat agagcttgta agtgaaaaga taaaatttga cctcagaaac tctgagcatt 240
 aaaaatccac tattagcaaa taaattacta tggacttctt gctttaattt tgtgatgaat 300
 atgggggtgc actggtaaac caacacattc tgaaggatac attacttagt gatagattct 360
 tatgtacttt gctanatnac gtggatatga gttgacaagt ttctctttct tcaatctttt 420
 aaggggcnag ngaaatgagg aagaaaagaa aaggattacg catactgttc tttctatngg 480

aaggattaga tatgtttcct ttgccaatat taaaaaata ataatgttta ctactagtga 540
aacc 545

<210> 206
<211> 487
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(487)
<223> n = A,T,C or G

<400> 206
tttttttttt ttttttagtc aagtttctna tttttattat aattaaagtc ttgggtcattt 60
cattttattag ctctgcaact tacatatatta aattaaagaa acgttnttag acaactgtna 120
caatttataa atgtaagggt ccattattga gtanatatat tcctccaaga gtggatgtgt 180
cccttctccc accaactaat gaancagcaa catttagttta attttattag tagatnatac 240
actgctgcaa acgctaattc tcttctccat ccccatgtng atattgtgta tatgtgtgag 300
ttggtnagaa tgcatacanca atctnacaat caacagcaag atgaagctag gcntgggctt 360
tcggtgaaaa tagactgtgt ctgtctgaat caaatgatct gacctatcct cggtggcaag 420
aactcttcga accgcttcct caaaggcngc tgccacattt gtggcntctn ttgcaottgt 480
ttcaaaa 487

<210> 207
<211> 332
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(332)
<223> n = A,T,C or G

<400> 207
tgaattggct aaaagactgc atttttanaa ctagcaactc ttattttcttt cctttaaaaa 60
tacatagcat taaatcccaa atcctattta aagacctgac agcttgagaa ggctcactact 120
gcattttatag gaccttctgg tggttctgct gttacntttg aantctgaca atccttgana 180
atctttgcat gcagaggagg taaaagggtat tggattttca cagagggaana acacagcgca 240
gaaatgaagg ggccaggctt actgagcttg tccactggag ggctcatggg tgggacatgg 300
aaaagaaggc agcctaggcc ctggggagcc ca 332

<210> 208
<211> 524
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(524)
<223> n = A,T,C or G

<400> 208
agggcggtgt gcgaggggcg ttactgtttt gtctcagtaa caataaatac aaaaagactg 60
gttgtgttcc ggcccatcc aaccacgaag ttgatttctc ttgtgtgcag agtgactgat 120
tttaaaggac atggagcttg tcacaatgtc acaatgtcac agtgtgaagg gcacactcac 180
tcccgctga ttcacattta gcaaccaaca atagctcatg agtccatact tgtaataact 240
tttggcagaa tacttnttga aacttgca gaataactaa gatccaagat atttccaaa 300

gtaaatagaa	gtgggtcata	atattaatta	cctgttcaca	tcagcttcca	tttacaagtc	360
atgagcccag	acactgacat	caaactaagc	ccacttagac	tcctcaccac	cagtctgtcc	420
tgatcatcaga	caggaggctg	tcaccttgac	caaatttctca	ccagtcaatc	atctatccaa	480
aaaccattac	ctgatccact	tccggtaatg	caccaccttg	gtga		524

<210> 209
 <211> 159
 <212> DNA
 <213> Homo sapien

<400> 209						
gggtgaggaa	atccagagtt	gccatggaga	aaattccagt	gtcagcattc	ttgtctccttg	60
tggccctctc	ctacactctg	gccagagata	ccacagtcaa	acctggagcc	aaaaaggaca	120
caaaggactc	tcgacccaaa	ctgccccaga	ccctctcca			159

<210> 210
 <211> 256
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(256)
 <223> n = A,T,C or G

<400> 210						
actccctggc	agacaaaggc	agaggagaga	gctctgttag	ttctgtgttg	ttgaactgcc	60
actgaatttc	tttccacttg	gactattaca	tgccanttga	gggactaatg	gaaaaacgta	120
tggggagatt	ttanccaatt	tangtntgta	aatggggaga	ctggggcagg	cgggagagat	180
ttgcagggtg	naaatgggan	ggctggtttg	ttanatgaac	agggacatag	gaggtaggca	240
ccaggatgct	aatca					256

<210> 211
 <211> 264
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 211						
acattgtttt	tttgagataa	agcattgaga	gagctctcct	taacgtgaca	caatggaagg	60
actggaacac	ataccacacat	ctttgttctg	agggataatt	ttctgataaa	gtcttgctgt	120
atattcaagc	acatatgtta	tatattattc	agttccatgt	ttatagccta	gttaaggaga	180
ggggagatac	attcngaaag	aggactgaaa	gaaatactca	agtnggaaaa	cagaaaaaga	240
aaaaaaggag	caaatgagaa	gcct				264

<210> 212
 <211> 328
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(328)
 <223> n = A,T,C or G

```

<400> 212
accacaaaaat ccaatgctga atatttggtc tcattattcc canattcttt gattgtcaaa      60
ggattttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag      120
gtttatatata gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccgccag      180
ttnaattttca ttcccatgga cttgggatcc ttatcatcag ccagagagat tgaaaattta      240
cccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag cttggccaca      300
tttttttttc ctttattcct ttgtcaga                                328

```

```

<210> 213
<211> 250
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 213
acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt      60
taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct      120
cattatgcca aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt      180
ttcaatatatt gcatgaacct gctgataanc catgttaana aacaaatatt tctctnacct      240
tctcatcggg                                250

```

```

<210> 214
<211> 444
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(444)
<223> n = A,T,C or G

```

```

<400> 214
accagaatc caatgctgaa tatttggtct cattattccc agattctttg attgtcaaag      60
gattttaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg      120
tttatatatg cagcaacaat attcaagcgc gacaacagggt tattgaactt gcccgccagt      180
tgaattttcat tcccattgac ttgggatcct tatcatcagc canagagatt gaaaattttac      240
ccctacgact ctttactctc tggagagggc cagtgggtgt agctataagc ttggccacat      300
tttttttttc tttattcctt tgtcagagat gcgattcatc catatgctan aaaccaacag      360
agtgaactttt acaaaaattcc tataganatt gtgaataaaa cttacctat agttgccatt      420
actttgctct ccctaataata cctc                                444

```

```

<210> 215
<211> 366
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(366)
<223> n = A,T,C or G

```

```

<400> 215
acttatgagc agagcgacat atccaagtgt anactgaata aaactgaatt ctctccagtt      60

```

```

taaagcattg ctcactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
cattatgcca aagganatat acatttcaat tctocaaact tcttcctcat tccaagagtt 180
ttcaatatatt gcatgaacct gctgataagc catgttgaga aacaaatata tctctgacct 240
tctcatoggt aagcagaggc ttaggcaac atggaccata gcgaanaaaa aacttagtaa 300
tccaagctgt tttctacact gtaaccagg tccaaccaa ggtggaaatc tcctatactt 360
ggtgcc

```

```

<210> 216
<211> 260
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

```

```

<400> 216
ctgtataaac agaactccac tgcangaggg agggccgggc caggagaatc tccgcttgct 60
caagacaggg gcctaaggag ggtctccaca ctgctnntaa gggctnttnc atttttttat 120
taataaaaag tnnaaaaggc ctcttctcaa cttttttccc ttnggctgga aaatttaaaa 180
atcaaaaatt tcctnaagtt ntcaagctat catatatact ntatcctgaa aaagcaacat 240
aatttcttct tccctccttt
260

```

```

<210> 217
<211> 262
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

```

```

<400> 217
acctacgtgg gtaagttttan aaatgttata atttcaggaa naggaacgca tataattgta 60
tcttgcttat aattttctat ttttaataagg aaatagcaaa ttgggggtggg gggaatgtag 120
ggcattctac agtttgagca aaatgcaatt aaatgtggaa ggacagcact gaaaaatttt 180
atgaataatc tgtatgatta tatgtctcta gagtagattt ataattagcc acttacccta 240
atataccttca tgcttgtaaa gt
262

```

```

<210> 218
<211> 205
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(205)
<223> n = A,T,C or G

```

```

<400> 218
accaaggtgg tgcattaccg gaantggatc aangacacca tcgtggccaa cccctgagca 60
cccctatcaa ctcccttttg tagtaaactt ggaaccttgg aaatgaccag gccaaagactc 120
aggcctcccc agttctactg acctttgtcc ttangtntna ngtccagggt tgctaggaaa 180
anaaatcagc agacacaggt gtaaa
205

```

```

<210> 219

```

77

<211> 114
 <212> DNA
 <213> Homo sapien

<400> 219
 tactgttttg tctcagtaac aataaatata aaaagactgg ttgtgttccg gccccatcca 60
 accacgaagt tgattttctct tgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220
 <211> 93
 <212> DNA
 <213> Homo sapien

<400> 220
 actagccagc acaaaaaggca gggtagcctg aattgctttc tgctctttac atttctttta 60
 aaataagcat ttagtgctca gtccctactg agt 93

<210> 221
 <211> 167
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(167)
 <223> n = A,T,C or G

<400> 221
 actangtgca ggtgcgcaca aatatttgct gatattccct tcattcttga ttccatgagg 60
 tcttttgccc agcctgtggc tctactgtag taagtttctg ctgatgagga gccagnatgc 120
 cccccactac cttccctgac gctcccccana aatcaccxaa cctctgt 167

<210> 222
 <211> 351
 <212> DNA
 <213> Homo sapien

<400> 222
 agggcgtggt gcgaggggcg gtactgacct cattagtagg aggatgcatt ctggcaccac 60
 gttctttcacc tgtcccccaa tccttaaaaag gccatactgc ataaagtcaa caacagataa 120
 atgtttgctg aattaaagga tggatgaaaa aaattaataa tgaatttttg cataatccaa 180
 ttttctcttt tatatttcta gaagaagttt ctttgagcct attagatccc gggaatcttt 240
 taggtgagca tgattagaga gcttgtaggt tgctttttaca tatactctggc atatttgagt 300
 ctcgtatcaa aacaatagat tggtaaaggt ggtattattg tattgataag t 351

<210> 223
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 223
 aaaacaaaca aacaaaaaaa acaattcttc attcagaaaa attatcttag ggactgatat 60
 tggtaattat ggtcaattta atwrttrttkt ggggcatttc cttacattgt cttgacaaga 120

78

ttaaaatgtc	tgtgccaaaa	ttttgtat	tatttggaga	cttcttatca	aaagtaatgc	180
tgccaaagga	agtctaagga	attagtagtg	ttcccmtcac	ttgtttggag	tgtgctat	240
taaaagattt	tgatttcctg	gaatgacaat	tatattttaa	ctttgggtggg	ggaaanagtt	300
ataggaccac	agtcttcact	tctgatactt	gtaaattaat	cttttattgc	acttgttttg	360
accattaagc	tatatgttta	aaa				383

<210> 224
 <211> 320
 <212> DNA
 <213> Homo sapien

<400> 224						
cccctgaagg	cttcttggtta	gaaaatagta	cagttacaac	caataggaac	aacaaaaaga	60
aaaagtttgt	gacattgtag	tagggagtgt	gtacccctta	ctcccatca	aaaaaaaaat	120
ggatacatgg	ttaaaggata	raagggaat	attttatcat	atgttctaaa	agagaaggaa	180
gagaaaatac	tactttctcr	aaatggaagc	ccttaaagggt	gctttgatac	tgaaggacac	240
aaatgtggcc	gtccatcctc	ctttaragtt	gcatgacttg	gacacggtaa	ctgttgcagt	300
tttaractcm	gcattgtgac					320

<210> 225
 <211> 1214
 <212> DNA
 <213> Homo sapien

<400> 225						
gaggactgca	gcccgctc	gcagccctgg	caggcggcac	tggtcatgga	aaacgaattg	60
ttctgctogg	gcgtcctgg	gcacccgcag	tgggtgctgt	cagccgcaca	ctgtttccag	120
aaactcctaca	ccatcggtc	gggcctgcac	agtcttgagg	ccgaccaaga	gccaggggagc	180
cagatgggtg	agggcagcct	ctccgtacgg	caccagaggt	acaacagacc	cttgctcgct	240
aacgaccto	tgctcatcaa	gttgacgaa	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattg	cttcgcagtg	ccctaccgcg	gggaactcct	gcctcgtttc	tggctgggggt	360
ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	tgaacgtgtc	ggtgggtgtct	420
gaggagggtc	gcagtaagct	ctatgaccgc	ctgtaccacc	ccagcatgtt	ctgcgccggc	480
ggaggggcaag	accagaagga	ctcctgcaac	ggtgactctg	ggggggccct	gatctgcaac	540
gggtactttg	agggccttgt	gtctttcgga	aaagccccgt	gtggccaagt	tggcgtgccca	600
ggtgtctaca	ccaacctctg	caaattcact	gagtggatag	agaaaaccgt	ccaggccagt	660
taactctggg	gactgggaac	ccatgaaatt	gacccccaaa	tacatcctgc	ggaaggaatt	720
caggaatatc	tgttcccagc	ccctcctccc	tcaggcccag	gagtcagggc	ccccagcccc	780
tcctccctca	aaccaagggt	acagatcccc	agccctcct	ccctcagacc	caggagtcca	840
gacccccag	cccctcctcc	ctcagaccga	ggagtccagc	ccctcctccc	tcagacccag	900
gagtcagagc	ccccagccc	ctcctccctc	agaccagggg	gtccaggccc	ccaaccctc	960
ctccctcaga	ctcagaggtc	caagccccc	acccctcctt	ccccagacc	agagggtccag	1020
gtcccagccc	ctcctccctc	agaccagcgc	gtccaatgcc	acctagactc	tcctgttaca	1080
cagtgcctcc	ttgtggcacg	ttgacccaac	cttaccagtt	ggtttttcat	tttttgtccc	1140
tttcccctag	atccagaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

<210> 226
 <211> 119
 <212> DNA
 <213> Homo sapien

<400> 226						
accagtatg	tgcagggaga	cggaacccca	tgtgacagcc	cactccacca	gggttcccaa	60
agaacctggc	ccagtcataa	tcattcatcc	tgacagtggc	aataatcacg	ataaccagt	119

<210> 227
 <211> 818

<212> DNA
<213> Homo sapien

<400> 227

acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggctctccc	ccagccctga	60
tttttgctac	atatggggtc	ccttttcatt	ctttgcaaaa	acactgggtt	ttctgagaac	120
acggacgggt	cttagcacia	tttgtgaaat	ctgtgtaraa	ccgggctttg	caggggagat	180
aattttcctc	ctctggagga	aaggtgggtg	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaagcca	cgctcggcct	tctctgaacc	aggatggaac	ggcagacccc	tgaaaacgaa	300
gcttgctccc	ttccaatcag	ccacttctga	gaacccccat	ctaacttcct	actggaaaag	360
agggcctcct	caggagcagt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420
ggaaaggggtg	caccctcagc	agagaagccg	agagcttaac	tctggctcgt	tccagagaca	480
acctgctggc	tgtcttgagg	tgcgcccgag	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	tgggcttcaa	cactgagttg	tcatgagagg	600
gacagcctct	gccctcaagc	cggctgaggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttgggt	720
caagaggata	tgaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780
gtccacttct	aggttttcag	cctagatggg	agtctgtgt			818

<210> 228
<211> 744
<212> DNA
<213> Homo sapien

<400> 228

actggagaca	ctgttgaact	tgatcaagac	ccagaccacc	ccaggtctcc	ttcgtgggat	60
gtcatgacgt	ttgacatacc	tttggaaaga	gcctcctcct	tggaagatgg	aagaccgtgt	120
tcgtggccga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcc	atttcaatgg	180
taggaaaagt	ggcttctgta	aatagaagag	cagtcactgt	ggaactacca	aatggcgaga	240
tgctcgggtg	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agcttttccc	acagcagtcc	acctctgcag	360
gctggcagct	gaatggcctt	ccggtggctc	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggctcct	tccaggttgg	480
ccagacgggtg	ttggccactc	ccttctaaaa	cacaggcgcc	ctcctgggtg	cagtgaaccg	540
ccgtgggtatg	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttggggtttg	600
ttcttttctg	taatgttctt	ctgtgtgtgc	agctgtcttc	atttcctggg	ctaagcagca	660
ttggggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaaga	cactttcttt	720
cttcaactctg	aagtagctgg	tggt				744

<210> 229
<211> 300
<212> DNA
<213> Homo sapien

<400> 229

cgagtctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcatgtgaac	60
cattacacat	cgaaataaaa	gaaaggtggc	agacttgccc	aacgccaggc	tgacatgtgc	120
tgcaggggtt	ttgtttttta	attattattg	ttagaaacgt	caccacagct	ccctgttaat	180
ttgtatgtga	cagccaactc	tgagaaggtc	ctatttttcc	acctgcagag	gatccagctt	240
cactaggctc	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

<210> 230
<211> 301
<212> DNA
<213> Homo sapien

<400> 230

cagcagaaca	aatacaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
------------	-----------	------------	------------	------------	------------	----

80

gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120
caatataaag	tcctgggttca	cactcaggaa	cgagagctga	cccagttaag	ggagaagttg	180
cggaagggga	gagatgcctc	cctctcattg	aatgagcatc	tccaggccct	cctcactccg	240
gatgaaccgg	acaagtccca	ggggcaggac	ctccaagaaa	cagacctcgg	ccgcgaccac	300
g						301

<210> 231
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 231						
gcaagcacgc	tggcaaatct	ctgtcaggtc	agctccagag	aagccattag	tcatttttagc	60
caggaactcc	aagtccacat	ccttggcaac	tggggacttg	cgcaggttag	ccttgaggat	120
ggcaacacgg	gacttctcat	caggaagtgg	gatgtagatg	agctgatcaa	gacggccagg	180
tctgaggatg	gcaggatcaa	tgatgtcagg	ccggttggta	ccgccaatga	tgaacacatt	240
tttttttgtg	gacatgccat	ccatttctgt	caggatctgg	ttgatgactc	ggtcagcagc	300
c						301

<210> 232
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 232						
agtaggtatt	tcgtgagaag	ttcaacacca	aaactggaac	atagttctcc	ttcaagtgtt	60
ggcgacagcg	gggttctctg	attctggaat	ataactttgt	gtaaattaac	agccacctat	120
agaagagtcc	atctgctgtg	aaggagagac	agagaactct	gggttccgtc	gtcctgtcca	180
cgtgctgtac	caagtgctgg	tgccagcctg	ttacctgttc	tactgaaaa	tctggctaata	240
gctcttgtgt	atcacttctg	attctgacaa	tcaatcaatc	aatggcctag	agcactgact	300
g						301

<210> 233
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 233						
atgactgact	tcccagtaag	gctctctaag	gggtaagtag	gaggatccac	aggatttgag	60
atgctaaggc	cccagagatc	gtttgatcca	accctcttat	tttcagaggg	gaaaatgggg	120
cctagaagtt	acagagcatc	tagctgggtg	gctggcaccc	ctggcctcac	acagactccc	180
gagtagctgg	gactacaggc	acacagtcac	tgaagcaggc	cctgttagca	attctatgcg	240
tacaaattaa	catgagatga	gtagagactt	tattgagaaa	gcaagagaaa	atcctatcaa	300
c						301

<210> 234
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 234						
aggtcctaca	catcgagact	catccatgat	tgatatgaat	ttaaaaatta	caagcaaaga	60
cattttattc	atcatgatgc	tttcttttgt	ttcttctttt	cgttttcttc	tttttctttt	120
tcaatttcag	caacatactt	ctcaatttct	tcaggattta	aaatcttgag	ggattgatct	180
cgccctcatga	cagcaagttc	aatgtttttg	ccacctgact	gaaccacttc	caggagtgcc	240
ttgatcacca	gcttaatggg	cagatcatct	gcttcaatgg	cttcgtcagt	atagttcttc	300
t						301

81

<210> 235
 <211> 283
 <212> DNA
 <213> Homo sapien

<400> 235
 tggggctgtg catcaggcgg gtttgagaaa tattcaattc tcagcagaag ccagaatttg 60
 aattccctca tcttttaggg aatcatttac cagggttgggaggattcag acagctcagg 120
 tgctttcact aatgtctctg aacttctgtc cctctttgtt catggatagt ccaataaata 180
 atgttatctt tgaactgatg ctcataggag agaataaag aactctgagt gatatacaaca 240
 ttagggattc aaagaaatat tagatttaag ctacactgg tca 283

<210> 236
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 236
 aggtcctcca ccaactgcct gaagcacggg taaaattggg aagaagtata gtgcagcata 60
 aatactttta aatcgatcag atttccctaa cccacatgca atcttcttca ccagaagagg 120
 tcggagcagc atcattaata ccaagcagaa tgcgtaatag ataaatacaa tgggtatatag 180
 tgggtagaag gcttcatgag tacagtgtac tgtgggtatcg taatctggac ttgggttgta 240
 aagcatcgtg taccagtcag aaagcatcaa tactcgacat gaacgaatat aaagaacacc 300
 a 301

<210> 237
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 237
 cagtggtagt ggtgggtggac gtggcggttg toggtgggtgcc ttttttgggtg ccggtcacaa 60
 actcaatttt tgttcgctcc tttttggcct tttccaattt gtccatctca attttctggg 120
 ccttggtctaa tgcctcatag taggagtcct cagaccagcc atggggatca aacatatact 180
 ttgggtagtt ggtgccaaagc tcgtcaatgg cacagaatgg atcagcttct cgtaaatacta 240
 gggttccgaa attctttctt cttttggata atgtagttca tatccattcc ctcttttata 300
 t 301

<210> 238
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 238
 gggcaggttt tttttttttt ttttttgatg gtgcagaccc ttgctttatt tgtctgactt 60
 gttcacagtt cagccccctg ctcaaaaaac caacgggcca gctaaggaga ggaggaggca 120
 ccttgagact tccggagtcg aggtctctca gggttcccca gcccatcaat cattttctgc 180
 accccctgcc tgggaagcag ctccctgggg ggtgggaatg ggtgactaga agggatttca 240
 gtgtgggacc cagggtctgt tcttcacagt aggaggtgga agggatgact aatttcttta 300
 t 301

<210> 239
 <211> 239
 <212> DNA
 <213> Homo sapien

<400> 239
 ataagcagct aggggaattct ttatttagta atgtcctaac ataaaagtgc acataactgc 60

ttctgtcaaa	ccatgatact	gagctttgtg	acaaccaga	aataactaag	agaaggcaaa	120
cataatacct	tagagatcaa	gaaacattta	cacagttcaa	ctgttttaaaa	atagctcaac	180
attcagccag	tgagtagagt	gtgaatgcca	gcatacacag	tatacaggtc	cttcaggga	239

<210> 240
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 240						
ggtcctaagt	aagcagcagc	ttccacat	taacgcaggt	ttacgggtgat	actgtccttt	60
gggatctgcc	ctccagtggg	accttttaag	gaagaagtgg	gccaagcta	agttccacat	120
gctgggtgag	ccagatgact	tctgttcct	ggtcactttc	ttcaatgggg	cgaatggggg	180
ctgccaggtt	tttaaaatca	tgcttcatct	tgaagcacac	ggtcacttca	ccctcctcac	240
gctgtgggtg	tactttgatg	aaaataccca	ctttgttggc	ctttctgaag	ctataatgtc	300

<210> 241
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 241						
gaggtctggt	gctgaggtct	ctgggctagg	aagaggagtt	ctgtggagct	ggaagccaga	60
cctcttttga	ggaaactcca	gcagctatgt	tggtgtctct	gaggggaatgc	aacaaggctg	120
ctctccatg	tattggaaaa	ctgcaaaactg	gactcaactg	gaaggaagtg	ctgctgccag	180
tgtgaagaac	cagcctgagg	tgacagaaac	ggaagcaaac	aggaacagcc	agtcttttct	240
tcctcctcct	gtcatacggg	ctctctcaag	catcctttgt	tgtcaggggc	ctaaaaggga	300
g						301

<210> 242
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 242						
ccgaggtcct	gggatgcaac	caatcactct	gtttcacgtg	acttttatca	ccatacaatt	60
tgtggcat	cctcat	ttttc	tacattgtag	aatcaagagt	gtaataaat	120
gtcttcaaga	atataatcatt	cctttttcac	tagaaccat	tcaaatata	agtcaagaat	180
cttaatatca	acaaatatat	caagcaaac	ggaaggcaga	ataactacca	taatttagta	240
taagtaccca	aagt	ttttata	aatcaaaagc	cctaatagata	accat	300
a						301

<210> 243
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 243						
aggtaagtcc	cagtttgaag	ctcaaaagat	ctggtatgag	catagggtca	tcgacgacat	60
ggtggcccaa	gctatgaaat	cagagggagg	cttcatcttg	gcctgtaaaa	actatgatgg	120
tgacgtgcag	tcggactctg	tggcccaagg	gtatggctct	ctcgcatga	tgaccagcgt	180
gctggtttgt	ccagatggca	agacagtaga	agcagaggct	gcccacggga	ctgtaacccg	240
tcactaccgc	atgttccaga	aaggacagga	gacgtccacc	aatccattg	cttccat	300
t						301

<210> 244
 <211> 300
 <212> DNA

<213> Homo sapien

<400> 244

gctgggtttgc	aagaatgaaa	tgaatgattc	tacagctagg	acttaacctt	gaaatggaaa	60
gtcatgcaat	cccatttgca	ggaatctgtc	gtgcacatgc	ctctgtagag	agcagcattc	120
ccagggacct	tggaacagct	tgacactgta	aggtgcttgc	tccccaaagac	acatcctaaa	180
aggtgttgta	atggtgaaaa	cgtcttcctt	ctttattgcc	ccttcttatt	tatgtgaaca	240
actgtttgtc	ttttgtgtat	ctttttttaa	ctgtaaagtt	caattgtgaa	aatgaatatc	300

<210> 245

<211> 301

<212> DNA

<213> Homo sapien

<400> 245

gtctgagtat	ttaaaatggt	attgaaatta	tccccaacca	atgttagaaa	agaaagaggt	60
tatatactta	gataaaaaat	gaggtgaatt	actatccatt	gaaatcatgc	tcttagaatt	120
aaggccagga	gatattgtca	ttaatgtara	cttcaggaca	ctagagtata	gcagccctat	180
gttttcaaag	agcagagatg	caattaaata	ttgttttagca	tcaaaaaggc	cactcaatac	240
agctaataaa	atgaaagacc	taatttctaa	agcaattcct	tataatttac	aaagttttaa	300
g						301

<210> 246

<211> 301

<212> DNA

<213> Homo sapien

<400> 246

ggctctgtcct	acaatgcctg	cttcttgaaa	gaagtcggca	ctttctagaa	tagctaaata	60
acctgggctt	atttttaaaga	actatttgta	gtcagatttg	gttttcctat	ggctaaaata	120
agtgtcttct	gtgaaaatta	aataaaacag	ttaattcaaa	gccttgatat	atgttaccac	180
taacaatcat	actaaatata	ttttgaagta	caaagtttga	catgctctaa	agtgacaacc	240
caaagtgtgc	ttacaaaaca	cgttcctaac	aaggtatgct	ttacactacc	aatgcagaaa	300
c						301

<210> 247

<211> 301

<212> DNA

<213> Homo sapien

<400> 247

aggtcctttg	gcagggctca	tggatcagag	ctcaaactgg	agggaaaggc	atttcgggta	60
gcctaagagg	gcgactggcg	gcagcacaa	caaggaaggc	aagggtgttt	ccccacgct	120
gtgtcctgtg	ttcaggtgcg	acacacaatc	ctcatgggaa	caggatcacc	catgcgctgc	180
ccttgatgat	caaggttggg	gcttaagtgg	attaagggag	gcaagttctg	ggttccttgc	240
cttttcaaac	catgaagtca	ggctctgtat	ccctcctttt	cctaactgat	attctaacta	300
a						301

<210> 248

<211> 301

<212> DNA

<213> Homo sapien

<400> 248

aggtccttgg	agatgccatt	tcagccgaag	gaactcttctw	ttcggaagta	cacccctcact	60
attaggaaga	ttcttagggg	taatttttct	gaggaaggag	aactagccaa	cttaagaatt	120
acaggaagaa	agtgttttgg	aagacagcca	aagaaataaa	agcagattaa	attgtatcag	180
gtacattcca	gcctgttggc	aactccataa	aaacattttca	gatttttaatc	ccgaatttag	240

ctaattgagac tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc 300
c 301

<210> 249
<211> 301
<212> DNA
<213> Homo sapien

<400> 249
gtccagagga agcacctggt gctgaactag gcttgccctg ctgtgaactt gcacttggag 60
ccctgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgtcccgcgc 120
ccagggagac acagcagtga ctcagagctg gtgcacacct gtgcctccct cctcaccgcc 180
catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag 240
actgaatcct tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt 300
a 301

<210> 250
<211> 301
<212> DNA
<213> Homo sapien

<400> 250
ggtctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaacac tacacttctc 60
cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc 120
cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac 180
ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta 240
caataaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc 300
a 301

<210> 251
<211> 301
<212> DNA
<213> Homo sapien

<400> 251
gcagaggtcc tacatttggc ccagtttccc cctgcacccct ctccaggggc cctgcctcat 60
agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat 120
ggcagggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct 180
cattggggtc aatgaaaagc ttcaagaaat cttcaggctc actctcttga aggcccgga 240
cctctggagg ggggcagtgg aatcccagct ccaggacgga tcctgtcgaa aagatatcct 300
c 301

<210> 252
<211> 301
<212> DNA
<213> Homo sapien

<400> 252
gcaaccaatc actctgtttc acgtgacttt tatcaccata caatttgtgg catttcctca 60
ttttctacat tgtagaatca agagtgtaaa taaatgtata tcgatgtctt caagaatata 120
tcattccttt ttcactagga acccattcaa aatataagtc aagaatctta atatcaacaa 180
atatatcaag caaactggaa ggcagaataa ctaccataat ttagtataag tacccaaagt 240
tttataaatc aaaagcccta atgataacca tttttagaat tcaatcatca ctgtagaatc 300
a 301

<210> 253
<211> 301
<212> DNA

<213> Homo sapien

<400> 253

ttccctaaga	agatgttatt	ttgttgggtt	ttgttcccc	tccatctcga	ttctcgtacc	60
caactaaaa	aaaaaataa	agaaaaaatg	tgctgcgttc	tgaaaaataa	ctccttagct	120
tggtctgatt	gttttcagac	cttaaaatat	aaacttggtt	cacaagcttt	aatccatgtg	180
gatttttttt	cttagagaac	cacaaaacat	aaaaggagca	agtcggactg	aatacctgtt	240
tccatagtgc	ccacagggtg	ttcctcacat	tttctccata	ggaaaatgct	ttttcccaag	300
g						301

<210> 254

<211> 301

<212> DNA

<213> Homo sapien

<400> 254

cgctgcgcct	ttcccttggg	ggaggggcaa	ggccagaggg	ggtccaagtg	cagcacgagg	60
aacttgacca	attcccttga	agcgggtggg	ttaaaccctg	taaatgggaa	caaaatcccc	120
ccaaatctct	tcctcttacc	ctggtggact	cctgactgta	gaattttttg	gttgaaacaa	180
gaaaaaata	aagcttttga	cttttcaagg	ttgcttaaca	ggtactgaaa	gactggcctc	240
acttaaacgt	agccaggaaa	agctgcagat	ttattaatgg	gtgtgttagt	gtgcagtgcc	300
t						301

<210> 255

<211> 302

<212> DNA

<213> Homo sapien

<400> 255

agcttttttt	tttttttttt	tttttttttt	ttcattaaaa	aatagtgtct	tttattataa	60
attactgaaa	tgtttctttt	ctgaatataa	atataaatat	gtgcaaagtt	tgacttggat	120
tgggattttg	ttgagttctt	caagcatctc	ctaataccct	caagggcctg	agtagggggg	180
aggaaaaagg	actggagggt	gaatctttat	aaaaaacaag	agtgattgag	gcagattgta	240
aacattatta	aaaaacaaga	aacaaacaaa	aaaatagaga	aaaaaaaccac	cccaacacac	300
aa						302

<210> 256

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 256

gttccagaaa	acattgaagg	tggcttccca	aagtctaact	agggataccc	cctctagcct	60
aggaccctcc	tccccacacc	tcaatocacc	aaaccatcca	taatgcaccc	agataggccc	120
acccccaaaa	gcctggacac	cttgagcaca	cagttatgac	caggacagac	tcctctctat	180
aggcaaatag	ctgctggcaa	actggcatta	cctggtttgt	ggggatgggg	gggcaagtgt	240
gtggcctctc	ggcctgggtt	gcaagaacat	tcagggtagg	cctaagttan	tcgtgttagt	300
t						301

<210> 257

<211> 301

<212> DNA

<213> Homo sapien

<400> 257
 gttgtggagg aactctggct tgctcattaa gtctactga ttttactat cccctgaatt 60
 tccccactta tttttgtctt tcactatcgc aggccttaga agaggtctac ctgcctccag 120
 tcttacctag tccagtctac cccctggagt tagaatggcc atcctgaagt gaaaagtaat 180
 gtcacattac tcccttcagt gatttcttgt agaagtgcc atccctgaat gccaccaaga 240
 tcttaatctt cacatcttta atcttatctc tttgactcct ctttacaccg gagaaggctc 300
 c 301

<210> 258
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 258
 cagcagtagt agatgccgta tgccagcacg cccagcactc ccaggatcag caccagcacc 60
 agggggccag ccaccaggcg cagaagcaag ataaacagta ggctcaagac cagagccacc 120
 cccagggcaa caagaatcca ataccaggac tgggcaaaat cttcaaagat cttaacactg 180
 atgtctcggg cattgaggct gtcaataana cgctgatccc ctgctgtatg gtggtgtcat 240
 tgggtgatccc tgggagcgcc ggtggagtaa cgttggtcca tggaaagcag cgcccacaac 300
 t 301

<210> 259
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 259
 tcatatatgc aaacaaatgc agactangcc tcaggcagag actaaaggac atctcttggg 60
 gtgtcctgaa gtgatttgga cccctgaggg cagacaccta agtaggaatc ccagtgggaa 120
 gcaaagccat aaggaagccc aggattcctt gtgatcagga agtgggccag gaagggtctgt 180
 tccagctcac atctcatctg catgcagcac ggaccggatg cgcccactgg gtcttggctt 240
 cccctccatc ttctcaagca gtgtccttgt tgagccatctt gcaccccttg ctccagggtg 300
 c 301

<210> 260
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 260
 ttttttttct ccctaaggaa aaagaaggaa caagtctcat aaaaccaa at aagcaatggt 60
 aagggtgtctt aacttgaaaa agattaggag tcaactggttt acaagttata attgaatgaa 120
 agaactgtaa cagccacagt tggccatttc atgccaatgg cagcaaaca caggattaac 180
 tagggcaaaa taaataagtg tgtggaagcc ctgataagtg cttaataaac agactgattc 240
 actgagacat cagtacctgc ccgggcggcc gctcgagccg aattctgcag atatccatca 300
 c 301

87

<210> 261
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 261
 aaatattcga gcaaatacctg taactaatgt gtctccataa aaggctttga actcagtga 60
 tctgcttcca tccacgattc tagcaatgac ctctcggaca tcaaagctcc tcttaagggtt 120
 agcaccaact attccataca attcatcagc aggaaataaa ggctcttcag aaggttcaat 180
 ggtgacatcc aattttcttct gataatttag attcctcaca accttcctag ttaagtgaag 240
 ggcatgatga tcatccaaag cccagtggtc acttactcca gactttctgc aatgaagatc 300
 a 301

<210> 262
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 262
 gaggagagcc tgttacagca tttgtaagca cagaatactc caggagtatt tgtaattgtc 60
 tgtgagcttc ttgccgcaag tctctcagaa atttaaaaag atgcaaatacc ctgagtcacc 120
 cctagacttc ctaaaccaga tcctctgggg ctggaacctg gcactctgca tttgtaatga 180
 gggctttctg gtgcacacct aattttgtgc atctttgccc taaatcctgg attagtgcc 240
 catcattacc cccacattat aatgggatag attcagagca gatactctcc agcaaagaat 300
 c 301

<210> 263
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 263
 tttagcttgt ggtaaatgac tcacaaaact gatttttaaaa tcaagttaat gtgaattttg 60
 aaaattacta cttaatccta attcacaata acaatggcat taagggttga cttgagttgg 120
 ttcttagtat tatttatggt aaataggctc ttaccacttg caaataactg gccacatcat 180
 taatgactga cttcccagta aggtctctta aggggtaagt angaggatcc acaggatttg 240
 agatgctaag gccccagaga tcgtttgatc caacctctt attttcagag gggaaaatgg 300
 g 301

<210> 264
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 264
 aaagacgtta aaccactcta ctaccacttg tggaactctc aaagggtaaa tgacaaascc 60
 aatgaatgac tctaaaaaca atatttacat ttaatggttt gtagacaata aaaaaacaag 120
 gtggatagat ctagaattgt aacattttta gaaaaccata scatttgaca gatgagaaag 180
 ctcaattata gatgcaaagt tataactaaa ctactatagt agtaaagaaa tacatttcac 240
 acccttcata taaattcact atcttggtt gaggcactcc ataaaatgta tcacgtgcat 300
 a 301

<210> 265

88

<211> 301
 <212> DNA
 <213> Homo sapien

<400> 265
 tgcccaagtt atgtgtaagt gtatccgcac ccagaggtaa aactacactg tcatctttgt 60
 cttcttgtga cgcagtattt cttctctggg gagaagccgg gaagtcttct cctggctcta 120
 catattcttg gaagtctcta atcaactttt gttccatttg tttcatttct tcaggaggga 180
 ttttcagttt gtcaacatgt tctctaacaa cacttgccca tttctgtaaa gaatccaaag 240
 cagtccaagg ctttgacatg tcaacaacca gcataactag agtatccttc agagatacgg 300
 c 301

<210> 266
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 266
 taccgtctgc ccttcctccc atccaggcca tctgcgaatc tacatgggtc ctccatttcg 60
 acaccagatc actctttcct ctaccacag gcttgctatg agcaagagac acaacctcct 120
 ctcttctgtg ttccagcttc ttttctgttt cttcccaccc cttaagttct attcctgggg 180
 atagagacac caatacccat aacctctctc ctaagcctcc ttataaccca ggggtgcacag 240
 cacagactcc tgacaactgg taaggccaat gaactgggag ctcacagctg gctgtgcctg 300
 a 301

<210> 267
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 267
 aaagagcaca ggccagctca gcctgccctg gccatctaga ctcagcctgg ctccatgggg 60
 gttctcagtg ctgagtccat ccaggaaaag ctcacctaga ccttctgagg ctgaatcttc 120
 atcctcacag gcagcttctg agagcctgat attcctagcc ttgatgggtc ggagtaaagc 180
 ctcatcttga ttcctctcct tcttttcttt caagttggct ttcttcacat ccctctgttc 240
 aattogcttc agcttgtctg ctttagccct catttccaga agcttcttct ctttggcatc 300
 t 301

<210> 268
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 268
 aatgtctcac tcaactactt ccagccctac cgtggcctaa ttctgggagt tttcttctta 60
 gatcttggga gagctggttc ttctaaggag aaggaggaag gacagatgta actttggatc 120
 tcgaagagga agtctaattg aagtaattag tcaacggtcc ttgttttagac tcttggata 180
 tgctgggtgg ctcagtgagc ctttttggag aaagcaagta ttattcttaa ggagtaacca 240
 cttcccatg ttctactttc taccatcatc aattgtatat tatgtattct ttggagaact 300
 a 301

<210> 269
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 269
 taacaatata cactagctat ctttttaact gtccatcatt agcaccaatg aagattcaat 60

89

```

aaaattacct ttattcacac atctcaaaac aattctgcaa attcttagtg aagtttaact 120
atagtcacag accttaataa ttcacattgt tttctatgtc tactgaaaat aagttcacta 180
cttttctgga tattctttac aaaatcttat taaaattcct ggtattatca cccccaatta 240
tacagtagca caaccacctt atgtagtttt tacatgatag ctctgtagaa gtttcacatc 300
t 301

```

```

<210> 270
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 270
cattgaagag cttttgcgaa acatcagaac acaagtgcctt ataaaattaa ttaagcctta 60
cacaagaata catattcctt ttatttctaa ggagttaaac atagatgtag ctgatgtgga 120
gagcttgctg gtgcagtgca tattggataa cactattcat ggccgaattg atcaagtcaa 180
ccaactcctt gaactggatc atcagaagaa ggggtggtgca cgatatactg cactagataa 240
tggaccaacc aactaaattc tctcaccagg ctgtatcagt aaactggctt aacagaaaac 300
a 301

```

```

<210> 271
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 271
aaaaggttct cataagatta acaattttaa taaatatttg atagaacatt ctttctcatt 60
tttatagctc atcttttagg ttgatattca gttcatgctt cccttgctgt tcttgatoca 120
gaattgcaat cacttcatca gcctgtattc gctccaattc tctataaagt ggggtccaagg 180
tgaaccacag agccacagca cacctctttc ccttggtgac tgccttcacc ccatganggt 240
tctctcctcc agatganaac tgatcatgcg ccacattttt ggggttttata gaagcagtca 300
c 301

```

```

<210> 272
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 272
taaattgcta agccacagat aacaccaatc aaatggaaca aatcactgtc ttcaaagtgc 60
ttatcagaaa accaaatgag cctggaatct tcataatacc taaacatgcc gtatttagga 120
tccaataatt ccctcatgat gagcaagaaa aattctttgc gcacctctcc tgcattccaca 180
gcatcttctc caacaaatat aaccttgagt ggcttcttgt aatctatgtt ctttgttttc 240
ctaaggactt ccattgcatc tcctacaata ttttctctac gcaccactag aattaagcag 300
g 301

```

```

<210> 273
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)

```

90

<223> n = A,T,C or G

<400> 273

```

acatgtgtgt atgtgtatct ttgggaaaaan aanaagacat cttgtttayt attttttttg 60
agagangctg ggacatggat aatcacwtaa tttgctayta tyactttaat ctgactygaa 120
gaaccgtcta aaaataaaaat ttaccatgtc dtatatccct tatagtatgc ttatttcacc 180
ttytttctgt ccagagagag tatcagtgac ananatttma ggggtgaamac atgmattggt 240
gggacttnty tttaacngagm accctgcccg sgcgccctcg makongantt ccgcsananc 300
t

```

<210> 274

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 274

```

cttatatact ctttctcaga ggcaaaagag gagatgggta atgtagacaa ttctttgagg 60
aacagtaaat gattattaga gagaangaat ggaccaagga gacagaaatt aacttgtaaa 120
tgattctctt tggaatctga atgagatcaa gaggccagct ttagcttggtg gaaaagtcca 180
tctaggtatg gttgcattct cgtcttcttt tctgcagtag ataatgaggt aaccgaaggc 240
aattgtgctt cttttgataa gaagctttct tggtcataatc aggaaattcc aganaaagtc 300
c

```

<210> 275

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 275

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tcggtgtcag cagcacgtgg cattgaacat tgcaatgtgg agcccaaacc acagaaaatg 60
gggtgaaatt ggccaacttt ctattaactt atgttggcaa ttttgccacc aacagtaagc 120
tggtcccttct aataaaagaa aattgaaagg tttctcacta aacggaatta agtagtgag 180
tcaagagact cccaggcctc agcgtacctg cccggggcgc cgctcgaagc cgaattctgc 240
agatatccat cacactggcg gncgctcgan catgcatcta gaaggnccaa ttcgccctat 300
a

```

<210> 276

<211> 301

<212> DNA

<213> Homo sapien

<400> 276

```

tgtacacata ctcaataaat aaatgactgc attgtggtat tattactata ctgattatat 60
ttatcatgtg acttctaatt agaaaatgta tccaaaagca aaacagcaga tatacaaaat 120
taaagagaca gaagatagac attaacagat aaggcaactt atacattgag aatccaaatc 180
caatacatth aaacatttgg gaaatgaggg ggacaaatgg aagccagatc aaatttgtgt 240
aaaactatth agtatgtttc cttgcttca tgtctgagaa ggctctcctt caatggggat 300
g

```

<210> 277
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 277
 tttgttgatg tcagtatttt attacttgcg ttatgagtgc tcacctggga aattctaaag 60
 atacagagga cttggaggaa gcagagcaac tgaatttaaat ttaaaagaag gaaaacattg 120
 gaatcatggc actcctgata ctttcccaaa tcaacactct caatgcccc ccctcgctct 180
 caccatagtg gggagactaa agtggccacg gatttgcctt angtgtgcag tgcgttctga 240
 gttcncgtgc gattacatct gaccagtctc ctttttccga agtccttccg ttcaatcttg 300
 c 301

<210> 278
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 278
 taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat 60
 aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca 120
 cagtctctac tggttattatg cattacctgg gaatttataat aagcccttaa taataatgcc 180
 aatgaacatc tcatgtgtgc tcacaatgtt ctggcactat tataagtgtc tcacagggtt 240
 tatgtgttct tcgtaacttt atggantagg tactcggccg cgaacacgct aagccgaatt 300
 c 301

<210> 279
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 279
 aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60
 gttatatata ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120
 ttagaocctt accttccagc caccocacag tgcttgatat ttcagagtca gtcattgggt 180
 atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240
 catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300
 a 301

<210> 280
 <211> 301
 <212> DNA

<213> Homo sapien

<400> 280

ggtactggag	ttttcctccc	ctgtgaaaac	gtaactactg	ttgggagtga	attgaggatg	60
tagaaaggtg	gtggaaccaa	attgtggtca	atggaaatag	gagaatatgg	ttctcactct	120
tgagaaaaaa	acctaagatt	agcccaggta	gttgccctgta	acttcagttt	ttctgcctgg	180
gtttgatata	gttttagggtt	ggggtttagat	taagatctaa	attacatcag	gacaaagaga	240
cagactatta	actccacagt	taattaagga	ggtatgttcc	atgtttatatt	gttaaagcag	300
t						301

<210> 281

<211> 301

<212> DNA

<213> Homo sapien

<400> 281

aggtacaaga	aggggaatgg	gaaagagctg	ctgctgtggc	attgttcaac	ttggatattc	60
gccgagcaat	ccaaatcctg	aatgaagggg	catcttctga	aaaaggagat	ctgaatctca	120
atgtggtagc	aatggcttta	tcgggttata	cggatgagaa	gaactccctt	tggagagaaa	180
tgtgtagcac	actgcgatta	cagctaaata	acccgtatct	gtgtgtcatg	tttgcatctc	240
tgacaagtga	aacaggatct	tacgatggag	ttttgtatga	aaacaaagtt	gcagtacctc	300
g						301

<210> 282

<211> 301

<212> DNA

<213> Homo sapien

<400> 282

caggtagtac	agaattaaaa	tactgacaag	caagtagttt	cttggcgtgc	acgaattgca	60
tccagaaccc	aaaaattaag	aaattcaaaa	agacattttg	tgggcacctg	ctagcacaga	120
agcgcagaag	caaagcccag	gcagaaccat	gctaacctta	cagctcagcc	tgcacagaag	180
cgcagaagca	aagcccaggc	agaaccatgc	taaccttaca	gctcagcctg	cacagaagcg	240
cagaagcaaa	gccagggcag	aacatgctaa	ccttacagct	cagcctgcac	agaagcacag	300
a						301

<210> 283

<211> 301

<212> DNA

<213> Homo sapien

<400> 283

atctgtatac	ggcagacaaa	ctttatarag	tgtagagagg	tgagcgaaa	gatgcaaaa	60
cactttgagg	gctttataat	aatatgctgc	ttgaaaaaaa	aatgtgtag	ttgatactca	120
gtgcatctcc	agacatagta	aggggttgct	ctgaccaatc	aggtgatcat	tttttctatc	180
acttcccagg	ttttatgcaa	aaattttggt	aaattctata	atggatgat	gcatctttta	240
ggaaacatat	acatttttaa	aaatctatct	tatgtaagaa	ctgacagacg	aatttgcttt	300
g						301

<210> 284

<211> 301

<212> DNA

<213> Homo sapien

<400> 284

caggtagaaa	acgctattaa	gtggcttaga	atttgaacat	ttgtggtctt	tatttacttt	60
gcttcgtgtg	tgggcaaagc	aacatcttcc	ctaaatatat	attaccaaga	aaagcaagaa	120
gcagattagg	tttttgacaa	aacaaacagg	ccaaaagggg	gctgacctgg	agcagagcat	180

93

```

ggtgagagggc aaggcatgag agggcaagtt tgttgtggac agatctgtgc ctactttatt 240
actggagtaa aagaaaacaa agttcattga tgtcgaagga tatatacagt gttagaaatt 300
a                                                    301

```

```

<210> 285
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 285
acatcaccat gatcggatcc cccacccatt atacgttgta tgtttacata aatactcttc 60
aatgatcatt agtgttttta aaaaaatact gaaaactcct tctgcatccc aatctctaac 120
caggaaagca aatgctatct acagacctgc aagccctccc tcaaacnaaa ctatttctgg 180
attaaatatg tctgacttct tttgaggtca cactgactag caaatgctat ttacgatctg 240
caaaagctgt ttgaagagtc aaagccccc tgtgaacacg atttctggac cctgtaacag 300
t                                                    301

```

```

<210> 286
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 286
taccactgca ttccagcctg ggtgacagag tgagactccg tctccaaaaa aaactttgct 60
tgtatattat ttttgcctta cagtggatca ttctagtagg aaaggacagt aagatttttt 120
atcaaaatgt gtcatgccag taagagatgt tatattcttt tctcatctct tccccacca 180
aaaataagct accatatagc ttataagtct caaatttttg ccttttacta aaatgtgatt 240
gtttctgttc atttgtgtatg ctccatcacc tatattaggc aaattccatt ttttcccttg 300
t                                                    301

```

```

<210> 287
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 287
tacagatctg ggaactaaat attaaaaatg agtgtggctg gatatatgga gaatgttggg 60
cccagaagga acgtagagat cagatattac aacagctttg ttttgagggg tagaaatatg 120
aaatgatttg gttatgaacg cacagttagg gcagcagggc cagaatcctg accctctgcc 180
ccgtggttat ctccctccca gcttggtctg ctcagtgtat cacagtatc cattttgttt 240
gttgcatgtc ttgtgaagcc atcaagattt tctcgtctgt tttcctctca ttggtaatgc 300
t                                                    301

```

```

<210> 288
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 288
gtacacctaa ctgcaaggac agctgaggaa tgtaatgggc agccgctttt aaagaagtag 60
agtcaatagg aagacaaatt ccagttccag ctcagtctgg gtatctgcaa agctgcaaaa 120
gatctttaaa gacaatttca agagaatatt tccttaaagt tggcaatttg gagatcatac 180
aaaagcatct gcttttgtga tttaatttag ctcactctgg cactggaaga atccaaacag 240

```

94

tctgccttaa ttttggatga atgcatgatg gaaattcaat aatttagaaa gttaaaaaaa 300
a 301

<210> 289
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 289
ggtacactgt ttccatgtta tgtttctaca cattgctacc tcagtgtctc tggaaaactta 60
gcttttgatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatctttg 120
ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa 180
cgttctataa atgaatgtgc tgaagcaaag tgcccatggt ggcggcgaan aagagaaaga 240
tgtgttttgt tttggactct ctgtggtccc ttccaatgct gtgggtttcc aaccagnnga 300
a 301

<210> 290
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 290
acactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac 60
tgactgatct gttcatttct ctcacagctc ttacccccaa aagcttttcc accctaagtg 120
ttctgacctc cttttctaata cacagtaggg atagaggcag anccacctac aatgaacatg 180
gagttctatc aagaggcaga aacagcacag aatoccagtt ttaccattcg ctagcagtgc 240
tgccctgaac aaaaacattt ctccatgtct cattttcttc atgcctcaag taacagtggag 300
a 301

<210> 291
<211> 301
<212> DNA
<213> Homo sapien

<400> 291
caggtagcaa tttcttctat cctagaaaca tttoatttta tgttgttgaa acataacaac 60
tatatcagct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc 120
tttactcttt tgtttatagg tgaatcacia aatgtatttt tatgtattct gtagttcaat 180
agccatggct gtttacttca ttttaatttat ttagcataaa gacattatga aaaggcctaa 240
acatgagctt cacttcccca ctaactaatt agcatctggt atttcttaac cgtaatgcct 300
a 301

<210> 292
<211> 301
<212> DNA
<213> Homo sapien

<220>

95

<221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 292
 accttttagt agtaatgtct aataataaat aagaaatcaa ttttataagg tccatatagc 60
 tgtatttaaat aattttttaag tttaaaagat aaaataccat catttttaaat gttgggtattc 120
 aaaaccaaag natataaccg aaaggaaaaa cagatgagac ataaaatgat ttgcnagatg 180
 ggaaatatag tasttyatga atgttnatta aattccagtt ataatatgtg ctacacactc 240
 tcactacaca cacagacccc acagtcctat atgccacaaa cacatttcca taacttgaaa 300
 a 301

<210> 293
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 293
 ggtaccaagt gctgggtgcc gctgttacc tgtttctcact gaaaagtctg gctaattgctc 60
 ttgtgtagtc acttctgatt ctgacaatca atcaatcaat ggcctagagc actgactgtt 120
 aacacaaacg tcaactagcaa agtagcaaca gctttaagtc taaatacaaaa gctgttctgt 180
 gtgagaattt tttaaaaggc tacttgtata ataacccttg tcattttttaa tgtacctcgg 240
 ccgcgaccac gctaagccga attctgcaga tatccatcac actggcggcc gctcgagcat 300
 g 301

<210> 294
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 294
 tgaccataa caatatacac tagctatctt ttttaactgtc catcattagc accaatgaag 60
 attcaataaa attaccttta ttcacacatc tcaaaacaat tctgcaaatt cttagtgaag 120
 ttttaactata gtcacaganc ttaaataatc acattgtttt ctatgtctac tgaaaataag 180
 ttcactactt ttctgggata ttctttacaa aatcttatta aaattcctgg tattatcacc 240
 cccaattata cagtagcaca accaccttat gtagttttta catgatagct ctgtagagggt 300
 t 301

<210> 295
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 295
 gtactctttc tctcccctcc tctgaattta attcttttcaa cttgcaattt gcaaggatta 60
 cacatttcac tgtgatgtat attgtgttgc aaaaaaaaaa gtgtctttgt ttaaaattac 120
 ttggtttgtg aatccatctt gctttttccc cattggaact agtcattaac ccatctctga 180
 actggtagaa aaacrtctga agagctagtc tatcagcatc tgacagggtga attggatggt 240
 tctcagaacc atttcaccca gacagcctgt ttctatcctg ttttaataaat tagtttgggt 300
 tctct 305

<210> 296
 <211> 301

<212> DNA
 <213> Homo sapien

<400> 296
 aggtactatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tgtgctatct 60
 cacctagtag taaactaaaa ataaactgaa actttatgga atctgaagtt attttccttg 120
 attaaataga attaataaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac 180
 tttgaaaaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt 240
 tgtcattact ataaatttta aaatctgtta ataagatggc ctatagggag gaaaaagggg 300
 c 301

<210> 297
 <211> 300
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 297
 actgagtttt aactggacgc caagcaggca aggctggaag gttttgctct ctttgtgcta 60
 aaggttttga aaaccttgaa ggagaatcat ttgacaaga agtacttaag agtctagaga 120
 acaaagangt gaaccagctg aaagctctcg ggggaanctt acatgtgttg ttaggcctgt 180
 tccatcattg ggagtgcact ggccatccct caaaatttgt ctgggctggc ctgagtgggc 240
 accgcacctc ggccgcgacc acgctaagcc gaattctgca gatatccatc aactggcg 300

<210> 298
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 298
 tatgggggttt gtcacccaaa agctgatgct gagaaaggcc tccctggggc ccctcccgcg 60
 ggcattctgag agacctggtg ttccagtgtt tctggaaatg ggtcccagtg ccgcgggctg 120
 tgaagctctc agatcaatca cgggaaggcg ctggcggtgg tggccacctg gaaccaccct 180
 gtccctgtctg tttacatttc actaycaggc tttctctggg cattacnatt tgttccccta 240
 caacagtgc ctgtgcattc tgctgtggcc tgctgtgtct gcaggtggct ctcagcgagg 300
 t 301

<210> 299
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 299
 gttttgagac ggagtttcac tcttgttgcc cagactggac tgcaatggca gggctctctgc 60
 tcaactgcacc ctctgcctcc cagggttogag caattctcct gcctcagcct ccaggttagc 120
 tgggattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg 180
 gaggtttcgcc atgttgccca gctgggtctca aactcctgac ctcaagcgac ctgcctgcct 240
 cggcctccca aagtgcctgga attataggca tgagtcacaa cggccagcct aaagatattt 300
 t 301

<210> 300
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 300
 attcagtttt atttgctgcc ccagtatctg taaccaggag tgccacaaaa tcttgccaga 60
 tatgtccac acccactggg aaaggctccc acctggctac ttctctatc agctgggtca 120
 gctgcattcc acaaggttct cagcctaatag agtttcta cctgccagtc tcaaaactta 180
 gtaaagcaag accatgacat tccccacgg aaatcagagt ttgcccacc gtcttggtac 240
 tataaagcct gcctctaaca gtccttgctt cttcacacca atcccgagcg catcccccat 300
 g 301

<210> 301
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 301
 ttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtctgc 60
 agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagttggt 120
 gggaactcac aaagaccctc agagctgaga caccacaaac agtgggagct cacaaagacc 180
 ctgagagctg agacaccac aacagtggga gtcacaaaag accctcagag ctgagacacc 240
 cacaacagca cctcgttcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt 300
 t 301

<210> 302
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 302
 aggtacacat ttagcttggt gtaaagtact caaaaactg attttaaaat caagttaatg 60
 tgaattttga aaattactac ttaatoctaa ttcacaataa caatggcatt aaggtttgac 120
 ttgagttggt tcttagtatt atttatggta aataggctct taccacttgc aaataactgg 180
 ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca 240
 caggatttga gatgctaagg cccagagat cgtttgatcc aaccctctta ttttcagagg 300
 g 301

<210> 303
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 303
 aggtaccaac tgtggaaata ggtagaggat cttttttct tccatatca actaagttgt 60
 atattgtttt ttgacagttt aacacatctt cttctgtcag agattctttc acaatagcac 120
 tggctaattg aactaccgct tgcattgtaa aaatgggtgt ttgtgaaatg atcataggcc 180
 agtaacgggt atgtttttct aactgatctt ttgctcgttc caaagggacc tcaagacttc 240
 catcgatttt atatctgggg tctagaaaag gagttaatct gttttccctc ataaattcac 300
 c 301

<210> 304
 <211> 301
 <212> DNA
 <213> Homo sapien

98

```

<400> 304
acatggatgt tattttgcag actgtcaacc tgaatttgta tttgcttgac attgcctaatt      60
tatttagtttc agtttcagct taccactttt ttgtctgcaa catgcaraas agacagtgcc      120
cttttttagtg tatcataatca ggaatcatct cacattgggtt tgtgccatta ctgggtgcagt      180
gacttttcagc cacttgggta aggtggagtt ggccatatgt ctccactgca aaattactga      240
ttttcctttt gtaattaata agtgtgtgtg tgaagattct ttgagatgag gtatatatatct      300
c                                                                                   301

```

```

<210> 305
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 305
gangtacagc gtggtcaagg taacaagaag aaaaaaatgt gagtggcatc ctgggatgag      60
cagggggaca gacctggaca gacacgttgt catttgctgc tgtgggtagg aaaatgggag      120
taaaggagga gaaacagata caaaatctcc aactcagtat taaggatttc tcatgcctag      180
aatattggta gaaacaagaa tacattcata tggcaaataa ctaaccatgg tggaacaaaa      240
ttctgggatt taagttggat accaangaaa ttgtattaaa agagctgttc atggaataag      300
a                                                                                   301

```

```

<210> 306
<211> 8
<212> PRT
<213> Homo sapien

```

```

<400> 306
Val Leu Gly Trp Val Ala Glu Leu
1                               5

```

```

<210> 307
<211> 637
<212> DNA
<213> Homo sapien

```

```

<400> 307
acaggggratg aagggaaggg gagaggatga ggaagccccc ctggggattt ggtttggtcc      60
ttgtgatcag gtggtctatg gggcttatcc ctacaaagaa gaatccagaa ataggggcac      120
attgaggaat gatacttgag cccaaagagc attcaatcat tgttttattt gccttmtttt      180
cacaccattg gtgaggggagg gattaccacc ctgggggttat gaagatggtt gaacacccca      240
cacatagcac cggagatatg agatcaacag tttcttagcc atagagattc acagcccaga      300
gcaggaggac gcttgcacac catgcaggat gacatggggg atgcgctcgg gattggtgtg      360
aagaagcaag gactgttaga ggcaggcttt atagtaacaa gacggtgggg caaactctga      420
tttcogtggg ggaatgtcat ggtcttgott tactaagttt tgagactggc aggtagtga      480
actcattagg ctgagaacct tgtggaatgc acttgaccca sctgatagag gaagtagcca      540
ggtggggagcc tttccagtg ggtgtgggac atatctggca agattttgtg gcactcctgg      600
ttacagatac tggggcagca aataaaaactg aatctttg                                     637

```

```

<210> 308
<211> 647
<212> DNA
<213> Homo sapien

```

99

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n = A,T,C or G

<400> 308
 acgattttca ttatcatgta aatcgggtca ctcaaggggc caaccacagc tgggagccac 60
 tgctcagggg aaggttcata tgggactttc tactgccccaa ggttctatac aggatataaa 120
 gnggcctcac agtatagatc tggtagcaaa gaagaagaaa caaacactga tctctttctg 180
 ccacccctct gacccttttg aactcctctg acccttttaga acaagcctac ctaatatctg 240
 ctagagaaaa gaccaacaac ggcctcaaag gatctcttac catgaaggtc tcagctaatt 300
 cttgggctaag atgtgggttc cacattaggt tctgaatatg gggggaagg tcaatttgct 360
 cattttgtgt gtggataaag tcaggatgcc caggggccag agcagggggc tgcttgcttt 420
 gggaacaatg gctgagcata taaccatagg ttatggggaa caaaacaaca tcaaagtcac 480
 tgtatcaatt gccatgaaga cttgagggac ctgaatctac cgattcatct taaggcagca 540
 ggaccagttt gagtggcaac aatgcagcag cagaatcaat ggaaacaaca gaatgattgc 600
 aatgtccttt tttttctcct gcttctgact tgataaaagg ggaccgt 647

<210> 309
 <211> 460
 <212> DNA
 <213> Homo sapien

<400> 309
 actttatagt ttaggctgga cattggaaaa aaaaaaagc cagaacaaca tgtgatagat 60
 aatatgattg gctgcacact tccagactga tgaatgatga acgtgatgga ctattgtatg 120
 gagcacatct tcagcaagag ggggaaatac tcatcatttt tggccagcag ttgtttgatc 180
 accaaacatc atgccagaat actcagcaaa ccttcttagc tcttgagaag tcaaagtccg 240
 ggggaattta ttcctggcaa ttttaattgg actccttatg tgagagcagc ggctaccocg 300
 ctgggggtgt ggagcgaacc cgtcactagt ggacatgcag tggcagagct cctggtaacc 360
 acctagagga atacacaggc acatgtgtga tgccaagcgt gacacctgta gcactcaaat 420
 ttgtcttgtt tttgtctttc ggtgtgtaag attccttaag 460

<210> 310
 <211> 539
 <212> DNA
 <213> Homo sapien

<400> 310
 acgggactta tcaaataaag ataggaaaag aagaaaactc aaatattata ggcagaaatg 60
 ctaaaggttt taaaatatgt caggattgga agaaggcatg gataaagaac aaagttcagt 120
 taggaaagag aaacacagaa ggaagagaca caataaaagt cattatgtat tctgtgagaa 180
 gtcagacagt aagattttgt ggaaatgggt tggtttggtg tatggtatgt attttagcaa 240
 taatctttat ggcagagaaa gctaaaatcc tttagcttgc gtgaatgatc acttgctgaa 300
 ttctcaagg taggcatgat gaaggagggt ttagaggaga cacagacaca atgaactgac 360
 ctagatagaa agccttagta tactcagcta ggaatagtga ttctgagggc aactgtgac 420
 atgattatgt cattacatgt atggtagtga tggggatgat aggaaggag aacttatggc 480
 atattttcac ccccaaaaa gtcagttaaa tattgggaca ctaaccatcc aggtcaaga 539

<210> 311
 <211> 526
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(526)
 <223> n = A,T,C or G

100

```

<400> 311
caaatttgag ccaatgacat agaatttttac aaatcaagaa gcttattctg gggccatttc      60
ttttgacgtt ttctctaaac tactaaagag gcattaatga tccataaatt atattatcta      120
catttacagc atttaaaatg tgttcagcat gaaatattag ctacagggga agctaaataa      180
attaaacatg gaataaagat ttgtccttaa atataatcta caagaagact ttgatatttg      240
tttttcacaa gtgaagcatt cttataaagt gtcataacct ttttggggaa actatgggaa      300
aaaatgggga aactctgaag ggttttaagt atcttacctg aagctacaga ctccataacc      360
tctctttaca gggagctcct gcagccccta cagaaatgag tggctgagat tcttgattgc      420
acagcaagag cttctcatct aaaccctttc cttttttagt atctgtgtat caagtataaa      480
agttctataa actgtagtnt acttatttta atccccaag cacagt                          526

```

```

<210> 312
<211> 500
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(500)
<223> n = A,T,C or G

```

```

<400> 312
cctctctctc cccaccccct gactctagag aactgggttt tctcccagta ctccagcaat      60
tcatttctga aagcagttga gccactttat tccaaagtag actgcagatg ttcaaactct      120
ccatttctct ttcccttcca cctgccagtt ttgctgactc tcaacttgct atgagtgtaa      180
gcattaagga cattatgctt cttogattct gaagacaggc cctgctcatg gatgactctg      240
gcttcttagg aaaatatttt tottccaaaa tcagtaggaa atctaaactt atcccctctt      300
tgcagatgtc tagcagcttc agacatttgg ttaagaacct atgggaaaaa aaaaaatcct      360
tgctaattgt gtttctcttg taaaccanga ttcttatttg nctggtatag aatatcagct      420
ctgaacgtgt ggtaaagatt tttgtgtttg aatataggag aaatcagttt gctgaaaagt      480
tagtcttaat tatctattgg                                     500

```

```

<210> 313
<211> 718
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

```

```

<400> 313
ggagatttgt gtggtttgca gccgagggag accaggaaga tctgcatggt gggaaggacc      60
tgatgatata gaggtgagaa ataagaaagg ctgctgactt taccatctga ggccacacat      120
ctgctgaaat ggagataatt aacatcacta gaaacagcaa gatgacaata taatgtctaa      180
gtagtgacat gtttttgcac atttccagcc cttttaaata tccacacaca caggaagcac      240
aaaaggaagc acagagatcc ctggggagaaa tgcccggccg ccatcttggg tcatcgatga      300
gctcgcctct gtgcctgntc ccgcttgtga gggaaggaca ttagaaaatg aattgatgtg      360
ttccttaaa gtaggcagga aaacagatcc tgttgtggat atttatattga acgggattac      420
agatttgaaa tgaagtcaca aagtgagcat taccaatgag aggaaaacag acgagaaaat      480
cttgatggtt cacaagacat gcaacaaaca aaatggaata ctgtgatgac acgagcagcc      540
aactggggag gagataccac ggggcagagg tcaggattct ggccctgctg cctaactctg      600
cgttatacca atcatttcta tttctaccct caaacaagct gtngaataat tgacttacgg      660
ttcttntggc ccacattttc atnatocacc cntcntttt aannttantc caaantgt      718

```

```

<210> 314

```

101

<211> 358
 <212> DNA
 <213> Homo sapien

<400> 314
 gtttattttac attacagaaa aaacatcaag acaatgtata ctattttcaaa tataatccata 60
 cataatcaaaa tatagctgta gtacatgttt tcattgggtgt agattaccac aaatgcaagg 120
 caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg tgtagtccaa 180
 gctctcggtg gtccagccac tgtgaaacat gctcccttta gattaacctc gtggacgctc 240
 ttgttggtatt gctgaactgt agtgccctgt attttgcttc tgtctgtgaa ttctgttgct 300
 tctggggcat ttccttggtga tgcagaggac caccacacag atgacagcaa tctgaatt 358

<210> 315
 <211> 341
 <212> DNA
 <213> Homo sapien

<400> 315
 taccacctcc ccgctggcac tgatgagccg catcaccatg gtcaccagca ccatgaaggc 60
 atagggtgatg atgaggacat ggaatgggcc cccaaggatg gtctgtccaa agaagcgagt 120
 gacccccatt ctgaagatgt ctggaacctc taccagcagg atgatgatag cccaatgac 180
 agtcaccagc tccccgacca gccggatata gtccttaggg gtcattgtagg cttcctgaag 240
 tagcttctgc tgtaagaggg tgttgctccg ggggctcgtg cggttattgg tcctgggctt 300
 gagggggcgg tagatgcagc acatggtgaa gcagatgatg t 341

<210> 316
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 316
 agactgggca agactcttac gccccacact gcaatttggt cttgttgccg tatccattta 60
 tgtgggcctt tctcgagttt ctgattataa acaccaactgg agcgatgtgt tgactggact 120
 cattcaggga gctctggttg caatattagt t 151

<210> 317
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 317
 agaactagtg gatacctaag aaataacctga aacatatatt ggcatttatc aatggctcaa 60
 atcttcatat atctctggcc ttaaccctgg ctccctgaggc tgcgccagc agatcccagg 120
 ccagggctct gttcttgcca cacctgcttg a 151

<210> 318
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 318
 actggtggga ggcgctgttt agttggctgt ttccagaggg gtctttcgga gggacctcct 60
 gctgcaggct ggagtgtctt tattcctggc gggagaccgc acattccact gctgaggctg 120
 tggggggcgt ttatcaggca gtgataaaca t 151

<210> 319
 <211> 151
 <212> DNA

102

<213> Homo sapien

<400> 319

```

aactagtggga tccagagcta taggtacagt gtgatctcag ctttgcaaac acattttcta      60
catagatagt actaggtatt aatagatatg taaagaaaga aatcacacca ttaataatgg      120
taagattggg tttatgtgat ttagtggggt a                                     151

```

<210> 320

<211> 150

<212> DNA

<213> Homo sapien

<400> 320

```

aactagtggga tccactagtc cagtgtgggtg gaattccatt gtgttgggggt tctagatgcg      60
gagcggtgc cctttttttt tttttttttg ggggggaatt tttttttttt aatagttatt      120
gagtgttcta cagcttacag taaataccat                                     150

```

<210> 321

<211> 151

<212> DNA

<213> Homo sapien

<400> 321

```

agcaactttg tttttcatcc aggttatttt aggccttagga tttcctctca cactgcagtt      60
tagggtggca ttgtaaccag ctatggcata ggtgttaacc aaaggctgag taaacatggg      120
tgcctctgag aaatcaaagt cttcatacac t                                     151

```

<210> 322

<211> 151

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(151)

<223> n = A,T,C or G

<400> 322

```

atccagcatc ttctcctggt tcttgcccttc ctttttcttc ttcttasatt ctgcttgagg      60
tttgggcttg gtcagtttgc cacagggtt ggagatgggt acagtcttct ggcattcggc      120
attgtgcagg gctcgttca nacttccagt t                                     151

```

<210> 323

<211> 151

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(151)

<223> n = A,T,C or G

<400> 323

```

tgaggacttg tktttctttt ctttattttt aatcctctta ckttgtaaata atattgccta      60
nagactcant tactaccag tttgtgggtt twtgggagaa atgtaactgg acagttagct      120
gttcaatyaa aaagacactt ancccatgtg g                                     151

```

<210> 324

103

<211> 461
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(461)
 <223> n = A,T,C or G

<400> 324
 acctgtgtgg aatttcagct ttctcatgc aaaaggattt tgtatccccg gcctacttga 60
 agaagtggtc agctaaagga atccagggtg ttggttgac tgtaataacc tttgatgaaa 120
 agagttacta cgaatcccat cttggttcca gctatatcac tgacagcatg gtagaagact 180
 gcgaacctca cttctagact ttacacggtg gacgaaacgg gttcagaaac tgccaggggc 240
 ctcatacagg gatatacaaaa taccctttgt gctaccagg ccctggggaa tcagggtgact 300
 cacacaaatg caatagttgg tcaactgcatt tttacctgaa ccaaagctaa acccggtgtt 360
 gccaccatgc accatggcat gccagagttc aacactgttg ctcttgaaaa ttgggtctga 420
 aaaaacgcac aagagcccct gccctgccct agctgangca c 461

<210> 325
 <211> 400
 <212> DNA
 <213> Homo sapien

<400> 325
 acactgtttc catgttatgt ttctacacat tgctacctca gtgctcctgg aaacttagct 60
 tttgatgtct ccaagtagtc cacccttcatt taactctttg aaactgtatc atctttgcc 120
 agtaagagtg gtggcctatt tcagctgctt tgacaaaatg actggctcct gacttaacgt 180
 tctataaatg aatgtgctga agcaaagtgc ccatgggtggc ggcaagaag agaaagatgt 240
 gttttgtttt ggactctctg tgggtcccttc caatgctgtg ggtttccaac cagggaagg 300
 gtcccttttg cattgccaaag tgccataacc atgagcacta cgctaccatg gttctgcctc 360
 ctggccaagc aggtgtgttt gcaagaatga aatgaatgat 400

<210> 326
 <211> 1215
 <212> DNA
 <213> Homo sapien

<400> 326
 ggaggactgc agcccgact cgcagccctg gcaggcggca ctggtcatgg aaaacgaatt 60
 gttctgctcg ggcgtcctgg tgcatacgcg gtgggtgctg tcagccgcac actgtttcca 120
 gaactcctac accatcgggc tgggcctgca cagtcttgag gccgaccaag agccaggag 180
 ccagatggtg gaggccagcc tctccgtaag gcacccagag tacaacagac ccttgctcgc 240
 taacgacctc atgctcatca agttggacga atccgtgtcc gagtctgaca ccacccggag 300
 catcagcatt gcttcgcagt gccctaccgc ggggaactct tgccctcgtt ctggctggg 360
 tctgctggcg aacggcagaa tgccctacgt gctgcagtgc gtgaacgtgt cgggtggtgc 420
 tgaggaggtc tgcagtaagc tctatgacct gctgtaccac cccagcatgt tctgcgccgg 480
 cggagggcaa gaccagaagg actcctgcaa cggtgactct ggggggcccc tgatctgcaa 540
 cgggtacttg cagggccttg tgtctttcgg aaaagccccg tgtggccaag ttggcgtgcc 600
 aggtgtctac accaacctct gcaaattcac tgagtggata gagaaaaccg tccaggccag 660
 ttaactctgg ggaactggaa cccatgaaat tgacccccaa atacatcctg cgggaaggaa 720
 tcaggaatat ctgttccag cccctcctcc ctcaggccca ggagtccagg cccccagccc 780
 ctctccctc aaaccaaggg tacagatccc cagccctcc tccctcagac ccaggagtcc 840
 agacccccca gccctcctc cctcagacc aggagtccag cccctcctcc ctcagacca 900
 ggagtccaga cccccagcc cctcctccct cagaccagc ggtccaggcc cccaaccct 960
 cctccctcag actcagaggt ccaagcccc aaccctcct tccccagacc cagaggtcca 1020
 ggtcccagcc cctcctccct cagaccagc ggtccaatgc caccctagact ctccctgtac 1080
 acagtgcacc cttgtggcac gttgacccaa ccttaccagt ttgtttttca ttttttgtcc 1140

104

ctttcccta gatccagaaa taaagtctaa gagaagcgca aaaaaaaaaa aaaaaaaaaa 1200
 aaaaaaaaaa aaaaa 1215

<210> 327
 <211> 220
 <212> PRT
 <213> Homo sapien

<400> 327
 Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu Val Met
 1 5 10 15
 Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val
 20 25 30
 Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly
 35 40 45
 Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu
 50 55 60
 Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala
 65 70 75 80
 Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp
 85 90 95
 Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn
 100 105 110
 Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro
 115 120 125
 Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu Val Cys
 130 135 140
 Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly
 145 150 155 160
 Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro
 165 170 175
 Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala
 180 185 190
 Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys
 195 200 205
 Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 210 215 220

<210> 328
 <211> 234
 <212> DNA
 <213> Homo sapien

<400> 328
 cgctcgctctc tggtagctgc agccaaatca taaacggcga ggactgcagc ccgcactcgc 60
 agccctggca ggcggcactg gtcattggaaa acgaattgtt ctgctcgggc gtcctgggtgc 120
 atccgcagtg ggtgctgtca gccacacact gtttccagaa ctctacacc atcgggctgg 180
 gcctgcacag tcttgaggcc gaccaagagc cagggagcca gatggtggag gcc 234

<210> 329
 <211> 77
 <212> PRT
 <213> Homo sapien

<400> 329
 Leu Val Ser Gly Ser Cys Ser Gln Ile Ile Asn Gly Glu Asp Cys Ser
 1 5 10 15
 Pro His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu

105

			20					25				30			
Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val	Leu	Ser	Ala	Thr
		35					40					45			
His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu	Gly	Leu	His	Ser	Leu
	50					55					60				
Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	Val	Glu	Ala			
65					70					75					

```
<210> 330
<211> 70
<212> DNA
<213> Homo sapien
```

<400> 330
cccaacacaa tggcccgatc ccatccctga ctccgccctc aggatcgctc gtctctggta 60
gctgcagcca 70

```
<210> 331
<211> 22
<212> PRT
<213> Homo sapien
```

<400> 331
Gln His Asn Gly Pro Ile Pro Ser Leu Thr Pro Pro Ser Gly Ser Leu
1 5 10 15
Val Ser Gly Ser Cys Ser
20

```
<210> 332
<211> 2507
<212> DNA
<213> Homo sapien
```

<400> 332						
tggtgccgct	gcagccggca	gagatggttg	agctcatggt	cccgtctgtt	ctctctcttc	60
tgcccttco	tctgtatatg	gctgcgcccc	aatcaggaa	aatgctgtcc	agtgggggtg	120
gtacatcaac	tgttcagctt	cctgggaaag	tagtttggtt	cacaggagat	aatcacggta	180
tcgggaagg	gacagccaaa	gagctggctc	agagaggagc	tcgagtatat	ttagctttgcc	240
gggagtgtga	aaagggggaa	ttgggtggca	aagagatcca	gaccacgaca	tggaaccagc	300
aggtgttgg	gcggaaaact	gacctgtctg	atactaagtc	tattcgagct	tttgctaagg	360
gcttcttagc	tgaggaaaag	cacctccacg	ttttgatcaa	caatgcagga	gtgatgatgt	420
gtccgtactc	gaagacagca	gatggctttg	agatgcacat	aggagtcaac	cacttgggtc	480
acttctctct	aacctatctg	ctgctagaga	aactaaagga	atcagcccca	tcaaggatag	540
taaatgtgtc	ttccctcgca	catcacctgg	gaaggatcca	cttccataac	ctgcaggggc	600
agaaattcta	caatgcaggc	ctggcctact	gtcacagcaa	gctagccaac	atcctcttca	660
cccaggaact	ggcccggaga	ctaaaaggct	ctggcgttac	gagctattct	gtacaccctg	720
gcacagtcca	atctgaactg	gttcggcact	catctttcat	gagatggatg	tggtggcttt	780
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106

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108

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 <212> DNA
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<212> PRT
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35     40     45
Val Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala
50     55     60
Pro Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln
65     70     75     80
Val Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln
85     90     95
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100    105    110
Leu Lys Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn
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<210> 337
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<212> PRT
<213> Homo sapien

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<213> Homo sapien

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<212> PRT
<213> Homo sapien

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110

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 165 170 175
 Ser Leu Ala His His Leu Gly Arg Ile His Phe His Asn Leu Gln Gly
 180 185 190
 Glu Lys Phe Tyr Asn Ala Gly Leu Ala Tyr Cys His Ser Lys Leu Ala
 195 200 205
 Asn Ile Leu Phe Thr Gln Glu Leu Ala Arg Arg Leu Lys Gly Ser Gly
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 Val Thr Thr Tyr Ser Val His Pro Gly Thr Val Gln Ser Glu Leu Val
 225 230 235 240
 Arg His Ser Ser Phe Met Arg Trp Met Trp Trp Leu Phe Ser Phe Phe
 245 250 255
 Ile Lys Thr Pro Gln Gln Gly Ala Gln Thr Ser Leu His Cys Ala Leu
 260 265 270
 Thr Glu Gly Leu Glu Ile Leu Ser Gly Asn His Phe Ser Asp Cys His
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 <213> Homo sapien

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 tgctcaatct cgccattcga ctcttgctcc aaactgtatg aagacacctg actgcacgtt 420
 ttttctgggc ttccagaatt taaagtgaag ggcagcactc ctaagctccg actccgatgc 480
 ctg 483

111

<210> 341
 <211> 344
 <212> DNA
 <213> Homo sapien

<400> 341
 ctgctgctga gtcacagatt tcattataaa tagcctccct aaggaaaata cactgaatgc 60
 tattttttact aaccattcta tttttataga aatagctgag agttttctaaa ccaactctct 120
 gctgccttac aagtattaaa tattttactt ctttccataa agagtagctc aaaatatgca 180
 attaatTTaa taattttctga tgatggTTTT atctgcagta atatgtatat catctattag 240
 aattttactta atgaaaaact gaagagaaca aaatttgtaa ccactagcac ttaagtactc 300
 ctgattctta acattgtctt taatgaccac aagacaacca acag 344

<210> 342
 <211> 592
 <212> DNA
 <213> Homo sapien

<400> 342
 acagcaaaaa agaaactgag aagcccaaty tgctttcttg ttaacatcca cttatccaac 60
 caatgtggaa acttcttata cttggttcca ttatgaagtt ggacaattgc tgctatcaca 120
 cctggcaggt aaaccaatgc caagagagtg atggaaacca ttggcaagac tttgttgatg 180
 accaggattg gaattttata aaaatattgt tgatgggaag ttgctaaagg gtgaattact 240
 tccctcagaa gagtgtaaaag aaaagtcaga gatgctataa tagcagctat ttttaattggc 300
 aagtgccact gtggaaagag ttctgtgtg tgctgaagtt ctgaagggca gtcaaattca 360
 tcagcatggg ctgtttgggtg caaatgcaaa agcacaggtc tttttagcat gctggctctc 420
 cccgtgtcct tatgcaaata atcgtcttct tctaaatttc tctaggctt cattttccaa 480
 agttcttctt ggtttgtgat gtcttttctg ctttccatta attctataaa atagtatggc 540
 ttcagccacc cactcttcgc cttagcttga ccgtgagtct cggctgccgc tg 592

<210> 343
 <211> 382
 <212> DNA
 <213> Homo sapien

<400> 343
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 cttaaatgttt gtggctttct ctccagcctc tcttaggagg ggtaatggtg gatttggcat 120
 cttgtaactc tcctttctcc tttcttcccc tttctctgcc cgcctttccc atcctgctgt 180
 agacttcttg attgtcagtc tgtgtcacat ccagtgattg ttttggtttc tgttcccttt 240
 ctgactgccc aaggggctca gaacccagc aatcccttcc tttcactacc ttcttttttg 300
 ggggtagttg gaagggactg aaattgtggg gggaaggtag gaggcacatc aataaagagg 360
 aaaccaccaa gctgaaaaaa aa 382

<210> 344
 <211> 536
 <212> DNA
 <213> Homo sapien

<400> 344
 ctgggcctga agctgtaggg taaatcagag gcaggcttct gagtgatgag agtcctgaga 60
 caataggcca cataaacttg gctggatgga acctcacaat aagggtggtc cctcttgttt 120
 gtttaggggg atgccaagga taaggccagc tcagttatat gaagagaagc agaacaaaca 180
 agtcttttcag agaaatggat gcaatcagag tgggatcccg gtcacatcaa ggtcacactc 240
 caccttcatg tgctgaatg gttgccaggt cagaaaaatc caccctttac gagtgcggct 300
 togacctat atccccgcc cgcgtccctt tctccataaa attcttctta gtagctatta 360
 ccttcttatt atttgatcta gaaattgccc tctttttacc cctaccatga gccctacaaa 420

112

caactaacct gccactaata gttatgtcat cctctttatt aatcatcatc ctagccctaa 480
gtctggccta tgagtgacta caaaaaggat tagactgagc cgaataacaa aaaaaa 536

<210> 345
<211> 251
<212> DNA
<213> Homo sapien

<400> 345
accttttgag gtctctctca ccacctccac agccacogtc accgtgggat gtgctggatg 60
tgaatgaagc ccccatcttt gtgcctcctg aaaagagagt ggaagtgtcc gaggactttg 120
gcgtgggcca ggaaatcaca tcctacactg cccaggagcc agacacattt atggaacaga 180
aaataacata tcggatttgg agagacactg ccaactggct ggagattaat ccggacactg 240
gtgccatttc c 251

<210> 346
<211> 282
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

<400> 346
cgcgtctctg acactgtgat catgacaggg gttcaaacag aaagtgcctg ggccctcctt 60
ctaagtcttg ttaccaaaaa aaggaaaaag aaaagatctt ctgagttaca aattctggga 120
aggagacta tacctggctc ttgccctaag tgagaggtct tccctccgc accaaaaaat 180
agaaaggctt tctatttcac tggcccaggt agggggaagg agagtaactt tgagtctgtg 240
ggtctcattt cccaaggtgc cttcaatgct catnaaaacc aa 282

<210> 347
<211> 201
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(201)
<223> n = A,T,C or G

<400> 347
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taaataatac ttttaaaana ntactancag cttttaccta ngctcctaaa tgcttgtaaa 120
tctgagactg actggaccca cccagaccca gggcaaagat acatggttacc atatcatctt 180
tataaagaat ttttttttgt c 201

<210> 348
<211> 251
<212> DNA
<213> Homo sapien

<400> 348
ctgttaatca caacatttgt gcatcacttg tgccaagtga gaaaatgttc taaaatcaca 60
agagagaaca gtgccagaat gaaactgacc ctaagtccca ggtgccctg ggcaggcaga 120
aggagacact cccagcatgg aggagggttt atcttttcat cctaggtcag gtctacaatg 180
ggggaagggtt ttattataga actcccaaca gccacactca ctctgccac ccacccgatg 240

113

gccctgcctc c 251

<210> 349
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 349
 taaaaatcaa gccatttaaat tgtatctttg aaggtaaaca atatatggga gctggatcac 60
 aacctctgag gatgccagag ctatgggtcc agaacatggg gtggtattat caacagagtt 120
 cagaagggtc tgaactctac gtgttaccag agaacataat gcaattcatg cattccactt 180
 agcaattttg taaaatacca gaaacagacc ccaagagtct ttcaagatga ggaaaattca 240
 actcctggtt t 251

<210> 350
 <211> 908
 <212> DNA
 <213> Homo sapien

<400> 350
 ctggacactt tgcgagggct tttgctggct gctgctgctg cccgtcatgc tactcatcgt 60
 agcccgcccg gtgaagctcg ctgctttccc tacctcctta agtgactgcc aaacgcccac 120
 cggctggaat tgctctgggt atgatgacag agaaaatgat ctcttcctct gtgacaccaa 180
 cacctgtaaa tttgatgggg aatgtttaag aattggagac actgtgactt gcgctctgtca 240
 gttcaagtgc aacaatgact atgtgcctgt gtgtggctcc aatggggaga gctaccagaa 300
 tgagtgttac ctgcgacagg ctgcatgcaa acagcagagt gagatacttg tgggtgtcaga 360
 aggatcatgt gccacagtc atgaaggctc tggagaaact agtcaaaaagg agacatccac 420
 ctgtgatatt tgccagtttg gtgcagaatg tgacgaagat gccgaggatg tctgggtgtgt 480
 gtgtaatat t gactgtttct aaaccaactt caatcccctc tgcgcttctg atgggaaatc 540
 ttatgataat gcatgccaaa tcaaagaagc atcgtgtcag aaacaggaga aaattgaagt 600
 catgtctttg ggtcgatgtc aagataaacac aactacaact actaagtctg aagatgggca 660
 ttatgcaaga acagattatg cagagaatgc taacaaatta gaagaaagtg ccagagaaca 720
 ccacatacct tgtccggaac attacaatgg cttctgcatg catggggaagt gtgagcattc 780
 tatcaatatg caggagccat cttgcaggtg tgatgctggg tatactggac aacactgtga 840
 aaaaaaggac tacagtgttc tatacgttgt tcccggctct gtacgatttc agtatgtctt 900
 aatcgag 908

<210> 351
 <211> 472
 <212> DNA
 <213> Homo sapien

<400> 351
 ccagttattt gcaagtggta agagcctatt taccataaat aatactaaga accaactcaa 60
 gtcaaacctt aatgccattg ttattgtgaa ttaggattaa gtagtaattt tcaaaattca 120
 cattaacttg atttttaa atcagwtttgyg agtcatttac cacaagctaa atgtgtacac 180
 tatgataaaa acaaccattg tattcctgtt ttctctaaaca gtccctaattt ctaacactgt 240
 atatatcctt cgacatcaat gaactttgtt ttottttact ccagtaataa agtaggcaca 300
 gatctgtcca caacaaactt gccctctcat gccttgccctc tcaccatgct ctgctccagg 360
 tcagccccct tttggcctgt ttgttttgtc aaaaacctaa tctgcttctt gcttttcttg 420
 gtaatatata tttaggggaag atgttgcttt gccacacac gaagcaaagt aa 472

<210> 352
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 352

114

ctcaaagcta	atctctcggg	aatcaaacca	gaaaagggca	aggatcttag	gcatgggtgga	60
tgtggataag	gccagggtcaa	tggctgcaag	catgcagaga	aagagggtaca	toggagcgtg	120
caggctcgt	tccgtcctta	cgatgaagac	cacgatgcag	tttccaaaca	ttgccactac	180
atacatggaa	aggaggggga	agccaaccca	gaaatgggct	ttctctaatac	ctgggatacc	240
aataagcaca	a					251

<210> 353
 <211> 436
 <212> DNA
 <213> Homo sapien

<400> 353						
tttttttttt	tttttttttt	tttttttaca	caatgcagtc	atttatattat	tgagtatgtg	60
cacattatgg	tattattact	atactgatta	tatttatcat	gtgacttcta	attaraaaat	120
gtatccaaaa	gcaaaacagc	agatatacaa	aattaaagag	acagaagata	gacattaaca	180
gataaggcaa	cttatacatt	gacaatccaa	atccaatata	tttaaacatt	tgggaaatga	240
gggggacaaa	tggaagccar	atcaaatttg	tgtaaaacta	ttcagtatgt	ttcccttgct	300
tcatgtctga	raaggctctc	ccttcaatgg	ggatgacaaa	ctccaaatgc	cacacaaatg	360
ttaacagaat	actagattca	cactggaacg	ggggtaaaga	agaaattatt	ttctataaaa	420
gggctcctaa	tgtagt					436

<210> 354
 <211> 854
 <212> DNA
 <213> Homo sapien

<400> 354						
ccttttctag	ttcaccagtt	ttctgcaagg	atgctgggta	gggagtgtct	gcaggaggag	60
caagtctgaa	accaaactca	ggaaacatag	gaaacgagcc	aggcacaggg	ctgggtgggccc	120
atcaggggacc	accctttggg	ttgatatttt	gcttaatctg	catcttttga	gtaagatcat	180
ctggcagtag	aagctgttct	ccagggtacat	ttctctagct	catgtacaaa	aacatcctga	240
aggactttgt	caggtgcctt	gctaaaagcc	agatgcgttc	ggcacttcct	tgggtctgagg	300
ttaattgcac	acctacaggc	actgggctca	tgctttcaag	tattttgtcc	tcactttagg	360
gtgagtgaag	gatccccatt	ataggagcac	ttgggagaga	tcataataaaa	gctgactcct	420
gagtacatgc	agtaatggg	tagatgtgtg	tggtgtgtct	tcattcctgc	aagggtgctt	480
gttagggagt	gtttccagga	ggaacaagtc	tgaaaccaat	catgaaataa	atggtaggtg	540
tgaactggaa	aactaattca	aaagagagat	cgtgatataca	gtgtggttga	tacaccttgg	600
caatatggaa	ggctctaatt	tgcccatatt	tgaaataata	attcagcttt	ttgtaataca	660
aaataacaaa	ggattgagaa	tcatgtgtgc	taatgtataa	aagaccagc	aaacataaat	720
atatcaactg	cataaatgta	aaatgcatgt	gacccaagaa	ggccccaag	tggcagacaa	780
cattgtaccc	attttccctt	ccaaaatgtg	agcggcgggc	ctgctgcttt	caaggctgtc	840
acacgggatg	tcag					854

<210> 355
 <211> 676
 <212> DNA
 <213> Homo sapien

<400> 355						
gaaattaagt	atgagctaaa	ttccctgtta	aaacctctag	gggtgacaga	tctcttcaac	60
caggtcaaa	ctgatctttc	tggaatgtca	ccaaccaagg	gcctatatatt	atcaaaaagcc	120
atccacaagt	catacctgga	tgtcagcgaa	gagggcacgg	aggcagcagc	agccactggg	180
gacagcatcg	ctgtaaaaag	cctaccaatg	agagctcagt	tcaaggcgaa	ccacccttc	240
ctgttcttta	taaggcacac	tcataccaac	acgatcctat	tctgtggcaa	gcttgcctct	300
ccctaatacag	atgggggttga	gtaagggtca	gagttgcaga	tgagggtgcag	agacaatcct	360
gtgactttcc	cacggccaaa	aagctgttca	cacctcacgc	acctctgtgc	ctcagtttgc	420
tcacttgcaa	aataggctca	ggatttcttc	caaccatttc	atgagttgtg	aagctaaggc	480
tttgttaatc	atggaaaaag	gtagacttat	gcagaaagcc	tttctggctt	tcttatctgt	540

115

gggtgtctcat	ttgagtgtctg	tccagtgaca	tgatcaagtc	aatgagtaaa	attttaaggg	600
attagattttt	cttgacttgt	atgtatctgt	gagatcttga	ataagtgacc	tgacatctct	660
gcttaaagaa	aaccag					676

<210> 356
 <211> 574
 <212> DNA
 <213> Homo sapien

<400> 356						
tttttttttt	tttttcagga	aaacattctc	ttactttatt	tgcattctcag	caaagggttct	60
catgtggcac	ctgactggca	tcaaaccaaa	gttcgtaggc	caacaaagat	gggccactca	120
caagcttccc	attttagat	ctcagtgcc	atgagtatct	gacacctgtt	cctctcttca	180
gtctcttagg	gaggcttaaa	tctgtctcag	gtgtgctaag	agtgccagcc	caaggkggtc	240
aaaagtccac	aaaactgcag	tctttgctgg	gatagtaagc	caagcagtgc	ctggacagca	300
gagttctttt	cttgggcaac	agataaccag	acaggactct	aatcgtgctc	ttattcaaca	360
ttcttctgtc	tctgcctaga	ctggaataaa	aagccaatct	ctctcgtggc	acaggggaagg	420
agatacaagc	tcgtttacat	gtgatagatc	taacaaaggc	atctaccgaa	gtctggtctg	480
gatagacggc	acagggagct	cttaggtcag	cgctgctggt	tggaggacat	tcctgagtc	540
agcttttgca	cctttgtgca	acagtacttt	ccca			574

<210> 357
 <211> 393
 <212> DNA
 <213> Homo sapien

<400> 357						
tttttttttt	tttttttttt	tttttttttt	tacagaatat	aratgcttta	tcactgkact	60
taatattgkg	kcttgtttcac	tatacttaaa	aatgcaccac	tcataaatat	ttaattcagc	120
aagccacaac	caaracttga	ttttatcaac	aaaaaccctt	aatataaac	ggsaaaaaag	180
atagatatata	ttattccagt	ttttttaaaa	cttaaaarat	attccattgc	cgaattaara	240
araarataag	tgttatatgg	aaagaagggc	attcaagcac	actaaaaraa	cctgaggkaa	300
gcataatctg	tacaaaatta	aactgtcctt	tttggcattt	taacaaaattt	gcaacgktct	360
tttttttctt	tttctgtttt	tttttttttt	tac			393

<210> 358
 <211> 630
 <212> DNA
 <213> Homo sapien

<400> 358						
acagggtaaa	caggaggatc	cttgctctca	oggagcttac	attctagcag	gaggacaata	60
ttaatgttta	taggaaaatg	atgagtttat	gacaaaggaa	gtagatagtg	ttttacaaga	120
gcatagagta	gggaagctaa	tccagcacag	ggaggtcaca	gagacatccc	taagggaagt	180
gagtttaaac	tgagagaagc	aagtgtctaa	actgaaggat	gtgttgaaga	agaagggaga	240
gtagaacaat	ttgggcagag	ggaaccttat	agaccctaag	gtgggaagg	tcaaagaact	300
gaaagagagc	tagaacagct	ggagccgttc	tccggtgtaa	agaggagtca	aagagataag	360
attaaagatg	tgaagattaa	gatcttggtg	gcattcaggg	attggcactt	ctacaagaaa	420
tcactgaagg	gagtaatgtg	acattacttt	tcacttcagg	atggccattc	taactccagg	480
gggtagactg	gactaggtaa	gactggaggc	aggtagacct	cttctaaggc	ctgogatagt	540
gaaagacaaa	aataagtggg	gaaattcagg	ggatagttaa	aatcagtagg	acttaattgag	600
caagccagag	gttctctccac	aacaaccagt				630

<210> 359
 <211> 620
 <212> DNA
 <213> Homo sapien

116

<400> 359

acagcattcc	aaaatataca	tctagagact	aarrgtaaat	gctctatagt	gaagaagtaa	60
taatttaaaaa	atgctactaa	tatagaaaat	ttataatcag	aaaaataaat	attcagggag	120
ctcaccagaa	gaataaagt	ctctgccagt	tattaaagga	ttactgctgg	tgaattaaat	180
atggcattcc	ccaagggaaa	tagagagatt	cttctggatt	atgttcaata	tttatttcac	240
aggattaact	gttttaggaa	cagatataaa	gcttggccac	ggaagagatg	gacaaagcac	300
aaagacaaca	tgataacctta	ggaagcaaca	ctaccctttc	aggcataaaa	tttggagaaa	360
tgcaacatta	tgcttcatga	ataatatgta	gaaagaaggt	ctgatgaaaa	tgacatcctt	420
aatgtaagat	aactttataa	gaattctggg	tcaaataaaa	ttctttgaag	aaaacatcca	480
aatgtcattg	acttatcaaa	tactatcttg	gcataataacc	tatgaaggca	aaactaaaca	540
aacaaaaagc	tcacaccaaa	caaaaccatc	aacttatttt	gtattctata	acatacgaga	600
ctgtaaagat	gtgacagtgt					620

<210> 360

<211> 431

<212> DNA

<213> Homo sapien

<400> 360

aaaaaaaaaa	agccagaaca	acatgtgata	gataaatatga	ttggctgcac	acttccagac	60
tgatgaatga	tgaacgtgat	ggactattgt	atggagcaca	tcttcagcaa	gagggggaaa	120
tactcatcat	ttttggccag	cagttgtttg	atcaccaaac	atcatgccag	aatactcagc	180
aaaccttctt	agctcttgag	aagtcaaagt	ccgggggaat	ttattcctgg	caattttaat	240
tggtactcctt	atgtgagagc	agcggctacc	cagctggggg	ggtggagcga	accggtcact	300
agtggacatg	cagtggcaga	gctcctggta	accacctaga	ggaatacaca	ggcacatgtg	360
tgatgccaaag	cgtgacacct	gtagcactca	aatttgtctt	gtttttgtct	ttcgggtgtgt	420
agattcttag	t					431

<210> 361

<211> 351

<212> DNA

<213> Homo sapien

<400> 361

acactgattt	ccgatcaaaa	gaatcatcat	ctttaccttg	acttttcagg	gaattactga	60
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ttgggtcctc	tggtctcttg	ccaagtttcc	cagccactcg	agggagaaat	atcggggagg	180
ttgacttctt	ccggggcttt	cccaggggct	tcaccgtgag	ccctgcggcc	ctcagggtctg	240
caatcctgga	ttcaatgtct	gaaacctogc	tctctgcctg	ctggacttct	gaggccgtca	300
ctgccactct	gtcctccagc	tctgacagct	cctcatctgt	ggtcctgttg	t	351

<210> 362

<211> 463

<212> DNA

<213> Homo sapien

<400> 362

acttcatcag	gccataatgg	gtgcctcccg	tgagaatcca	agcacctttg	gactgcgcga	60
tgtagatgag	ccggctgaag	atcttgcgca	tgcgcggtt	cagggcgaag	ttcttggcgc	120
ccccggctac	agaaatgacc	aggttgggtg	ttttcagggt	ccagtgtctg	gtcagcagct	180
cgtaaaggat	ttccgcgtcc	gtgtcgcagg	acagacgtat	atacttcctt	ttcttcccca	240
gtgtctcaaa	ctgaatatcc	ccaaaggcgt	cggtaggaaa	ttccttgggt	tgtttcttgt	300
agttccattt	ctcacttttg	ttgatctggg	tgcttcccat	gtgctggctc	tgggcatagc	360
cacacttgca	cacattctcc	ctgataagca	cgatgggtgtg	gacaggaagg	aaggatttca	420
ttgagcctgc	ttatggaaac	tggtattgtt	agcttaaata	gac		463

<210> 363

<211> 653

117

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(653)
 <223> n = A,T,C or G

<400> 363
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 ctcttgngga ttctgggtga catcttcatg aatggcaacc gtgccagwga ggctgtcctc 120
 tgggaggcac tacgcaagat gggactgcgt cctgggggtga gacatcctct ccttggagat 180
 ctaacgaaac ttctcaccta tgagttgtaa agcagaaata cctgnactac agacgagtgc 240
 ccaacagcaa cccccggaa gtatgagttc ctctrgggcc tccgttccta ccatagagasc 300
 tagcaagatg naagtgttga gantcattgc agaggttcag aaaagagacc cntcgtgact 360
 ggtctgcaca gttcatggag gctgcagatg aggccttgga tgctctggat gctgctgcag 420
 ctgaggccga agcccgggct gaagcaagaa cccgcattgg aattggagat gaggctgtgt 480
 ntggggccctg gagctgggat gacattgagt ttgagctgct gacctgggat gaggaaggag 540
 attttgagaga tccntgggtcc agaattccat ttaccttctg ggccagatac caccagaatg 600
 cccgctccag attccctcag acctttgccg gtcccattat tggtcstggt ggt 653

<210> 364
 <211> 401
 <212> DNA
 <213> Homo sapien

<400> 364
 actagaggaa agacgttaaa ccactctact accacttgtg gaactctcaa agggtaaatg 60
 acaaagccaa tgaatgactc taaaaacaat atttacattt aatggtttgt agacaataaa 120
 aaaacaagggt ggatagatct agaattgtaa cattttaaga aaaccatagc atttgacaga 180
 tgagaaagct caattataga tgcaaagtta taactaaact actatagtag taaagaaata 240
 catttcacac cttcatata aattcactat cttggcttga ggcactccat aaaatgtatc 300
 acgtgcatag taaatcttta tatttgctat ggcgttgcac tagaggactt ggactgcaac 360
 aagtggatgc gcggaaaatg aaatcttctt caatagccca g 401

<210> 365
 <211> 356
 <212> DNA
 <213> Homo sapien

<400> 365
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<210> 366
 <211> 1851
 <212> DNA
 <213> Homo sapien

<400> 366
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<210> 367
 <211> 668
 <212> DNA
 <213> Homo sapien

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<210> 368
 <211> 1512
 <212> DNA
 <213> Homo sapien

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119

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<210> 369

<211> 1853

<212> DNA

<213> Homo sapien

<400> 369

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120

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<210> 370
 <211> 2184
 <212> DNA
 <213> Homo sapien

<400> 370
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<210> 371
 <211> 1855
 <212> DNA
 <213> Homo sapien

<220>
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 <223> n = A,T,C or G

<400> 371
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121

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<210> 372
 <211> 1059
 <212> DNA
 <213> Homo sapien

<400> 372						
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<210> 373
 <211> 1155

122

<212> DNA
 <213> Homo sapien

<400> 373

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tgtgcgttaa	tggttgctgga	acatggcact	gatccaaata	ttccagatga	gtatggaaat	720
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tatggtgctg	atatcgaatc	aaaaaacaag	catggcctca	caccactggt	acttgggtgta	840
catgagcaaa	aacagcaagt	cgtgaaattt	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
ctggatagat	atggaaggac	tgctctcata	cttgctgtat	gttggtggatc	agcaagtata	960
gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
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accagaaata	aataa					1155

<210> 374
 <211> 2000
 <212> DNA
 <213> Homo sapien

<400> 374

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ggagactacg	atgacagtgc	cttcatggag	cccagggtacc	acgtccgtgg	agaagatctg	420
gacaagctcc	acagagctgc	ctggtggggg	aaagtcccca	gaaaggatct	catcgtcatg	480
ctcagggaca	ctgacgtgaa	caagaaggac	aagcaaaaga	ggactgctct	acatctggcc	540
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gtccttgaca	acaaaaagag	gacagctctg	ataaaggccg	tacaatgcca	ggaagatgaa	660
tgtgcgttaa	tggttgctgga	acatggcact	gatccaaata	ttccagatga	gtatggaaat	720
accactctgc	actacgctat	ctataatgaa	gataaattaa	tggccaaagc	actgctctta	780
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catgagcaaa	aacagcaagt	cgtgaaattt	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
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gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
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123

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agaacacctg	aaagccagca	atttcctgac	actgagaatg	aagagtatca	cagtgcagaa	1740
caaaatgata	ctcagaagca	attttgtgaa	gaacagaaca	ctggaatatt	acacgatgag	1800
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cttagttgta	agaaagaaaa	agacatcttg	catgaaaata	gtacgttgcg	ggaagaaatt	1920
gccatgctaa	gactggagct	agacacaatg	aaacatcaga	gccagctaaa	aaaaaaaaaa	1980
aaaaaaaaaa	aaaaaaaaaa					2000

<210> 375
 <211> 2040
 <212> DNA
 <213> Homo sapien

<400> 375						
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accactctgc	actacgctat	ctataatgaa	gataaattaa	tggccaaagc	actgctotta	780
tatggtgctg	atatcgaaatc	aaaaaacaag	catggcctca	caccactgtt	acttgggtgta	840
catgagcaaa	aacagcaagt	cgtgaaatct	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
ctggatagat	atggaaggac	tgctctcata	cttgcctgat	gttgtggatc	agcaagtata	960
ctcagccttc	tacttgagca	aaatatgtat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
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aaacagatgc	caaaatactc	ttctgaaaac	agcaaccagc	aacaagactt	aaagctgaca	1500
tcagaggaag	agtcacaaag	gcttgagggc	agtgaaaatg	gccagccaga	gaaaagatct	1560
caagaaccag	aaataaataa	ggatggtgat	agagagctag	aaaattttat	ggctatcgaa	1620
gaaatgaaga	agcacggaag	tactcatgtc	ggattcccag	aaaacctgac	taatggtgcc	1680
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cagcaatttc	ctgacactga	gaatgaagag	tatcacagtg	acgaacaaaa	tgatactcag	1800
aagcaatttt	gtgaagaaca	gaacactgga	atattacacg	atgagattct	gattcatgaa	1860
gaaaagcaga	tagaagtggg	tgaaaaaatg	aattctgagc	tttctcttag	ttgtaagaaa	1920
gaaaaagaca	tcttgcatga	aaatagtacg	ttgcgggaag	aaattgccat	gctaagactg	1980
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<210> 376
 <211> 329
 <212> PRT
 <213> Homo sapien

<400> 376															
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Leu	His	Leu	Ala	Gly	Ser	Asp	Leu	Leu	Ser	Arg	Ser	Leu	Met	Ala	Glu

124

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      20      25      30
Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
      35      40      45
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
      50      55      60
Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
      65      70      75      80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
      85      90      95
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
      100      105      110
His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
      115      120      125
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
      130      135      140
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
      145      150      155      160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
      165      170      175
Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
      180      185      190
Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
      195      200      205
Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
      210      215      220
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
      225      230      235      240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
      245      250      255
Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
      260      265      270
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
      275      280      285
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
      290      295      300
Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
      305      310      315      320
Ser Met Leu Phe Leu Val Ile Ile Met
      325

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<210> 377
<211> 148
<212> PRT
<213> Homo sapien

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<220>
<221> VARIANT
<222> (1)...(148)
<223> Xaa = Any Amino Acid

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<400> 377
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Trp Thr Ser Ser Thr Glu Leu Pro Trp Trp Gly Lys Val Pro Arg Lys
      20      25      30
Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys
      35      40      45
Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu

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125

50		55		60
Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp				
65		70		75
Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Gln Glu Asp				80
	85		90	95
Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro				
	100		105	110
Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp				
	115		120	125
Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser				
	130		135	140
Lys Asn Lys Val				
145				

<210> 378
 <211> 1719
 <212> PRT
 <213> Homo sapien

<400> 378
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Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
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Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
35 40 45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
50 55 60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
65 70 75 80
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
85 90 95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
100 105 110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
115 120 125
Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
130 135 140
Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
145 150 155 160
Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
165 170 175
Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
180 185 190
Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
195 200 205
Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
210 215 220
Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
225 230 235 240
Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
245 250 255
Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
260 265 270
Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
275 280 285
Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
290 295 300

Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310					315					320
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345					350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile
		355					360					365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Asn	Val	Ser	Arg	Thr	Arg	Asn	Lys
		370				375					380				
Pro	Arg	Thr	His	Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser
385					390					395					400
Ser	Val	Lys	Lys	Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys
				405					410					415	
Cys	Arg	Cys	Phe	Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly
			420					425					430		
Thr	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys
		435					440					445			
Met	Gly	Lys	Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly
		450				455					460				
Lys	Ser	Asn	Val	Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys
465				470						475					480
Thr	Leu	Arg	Asn	Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys
				485					490					495	
Cys	Arg	Gly	Ser	Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp
			500					505					510		
Asp	Ser	Ala	Phe	Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu
		515					520					525			
Asp	Lys	Leu	His	Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp
		530				535					540				
Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln
545					550					555					560
Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val
				565					570					575	
Val	Lys	Leu	Leu	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn
			580					585					590		
Lys	Lys	Arg	Thr	Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu
		595					600					605			
Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp
		610				615					620				
Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys
625				630						635					640
Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys
			645						650					655	
Asn	Lys	His	Gly	Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys
			660					665					670		
Gln	Gln	Val	Val	Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala
		675					680					685			
Leu	Asp	Arg	Tyr	Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly
		690				695					700				
Ser	Ala	Ser	Ile	Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser
705					710					715					720
Ser	Gln	Asp	Leu	Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser
			725						730					735	
His	His	His	Val	Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln
			740					745					750		
Met	Leu	Lys	Ile	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys
		755					760					765			

Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser
770						775					780				
Gln	Pro	Glu	Lys	Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp
785					790					795					800
Arg	Glu	Val	Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly	
				805					810					815	
Leu	Leu	Glu	Asn	Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn
			820					825					830		
Gly	Leu	Ile	Pro	Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe
		835					840					845			
Pro	Asp	Asn	Glu	Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser
	850						855				860				
Asp	Tyr	Lys	Glu	Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn
865					870					875					880
Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu
				885					890					895	
Glu	Gly	Ser	Glu	Asn	Gly	Gln	Pro	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile
			900					905					910		
Glu	Glu	Met	Lys	Lys	His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn
			915				920					925			
Leu	Thr	Asn	Gly	Ala	Thr	Ala	Gly	Asn	Gly	Asp	Asp	Gly	Leu	Ile	Pro
	930					935					940				
Pro	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu
945					950					955					960
Asn	Glu	Glu	Tyr	His	Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe
				965						970					975
Cys	Glu	Glu	Gln	Asn	Thr	Gly	Ile	Leu	His	Asp	Glu	Ile	Leu	Ile	His
			980					985					990		
Glu	Glu	Lys	Gln	Ile	Glu	Val	Val	Glu	Lys	Met	Asn	Ser	Glu	Leu	Ser
		995					1000					1005			
Leu	Ser	Cys	Lys	Lys	Glu	Lys	Asp	Ile	Leu	His	Glu	Asn	Ser	Thr	Leu
	1010					1015					1020				
Arg	Glu	Glu	Ile	Ala	Met	Leu	Arg	Leu	Glu	Leu	Asp	Thr	Met	Lys	His
1025					1030					1035					1040
Gln	Ser	Gln	Leu	Pro	Arg	Thr	His	Met	Val	Val	Glu	Val	Asp	Ser	Met
				1045						1050					1055
Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys	Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met
			1060					1065					1070		
Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe	Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys
		1075					1080					1085			
Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr
	1090					1095					1100				
Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys
1105					1110					1115					1120
Arg	Gly	S													

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Asn Ser Glu Val Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn
 1235 1240 1245
 Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys
 1250 1255 1260
 Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro
 1265 1270 1275 1280
 Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr
 1285 1290 1295
 Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp
 1300 1305 1310
 Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Val
 1315 1320 1325
 His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala
 1330 1335 1340
 Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala
 1345 1350 1355 1360
 Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn
 1365 1370 1375
 Ile Asp Val Ser Ser Gln Asp Leu Ser Ser Gly Gln Thr Ala Arg Glu Tyr
 1380 1385 1390
 Ala Val Ser Ser His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr
 1395 1400 1405
 Lys Glu Lys Gln Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu
 1410 1415 1420
 Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly
 1425 1430 1435 1440
 Ser Glu Asn Ser Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn
 1445 1450 1455
 Lys Asp Gly Asp Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser
 1460 1465 1470
 Asn Asn Val Gly Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly
 1475 1480 1485
 Asn Gly Asp Asn Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu
 1490 1495 1500
 Asn Gln Gln Phe Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys
 1505 1510 1515 1520
 Glu Leu Val Ser Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser
 1525 1530 1535
 Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu
 1540 1545 1550
 Ser Gln Arg Leu Glu Gly Ser Glu Asn Gly Gln Pro Glu Lys Arg Ser
 1555 1560 1565
 Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Leu Glu Asn Phe
 1570 1575 1580
 Met Ala Ile Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe
 1585 1590 1595 1600
 Pro Glu Asn Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly
 1605 1610 1615
 Leu Ile Pro Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro
 1620 1625 1630
 Asp Thr Glu Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln
 1635 1640 1645
 Lys Gln Phe Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile
 1650 1655 1660
 Leu Ile His Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser
 1665 1670 1675 1680
 Glu Leu Ser Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn
 1685 1690 1695

129

Ser Thr Leu Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr
 1700 1705 1710
 Met Lys His Gln Ser Gln Leu
 1715

<210> 379
 <211> 656
 <212> PRT
 <213> Homo sapien

<400> 379
 Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu

130

370		375		380
Glu Glu Ser Gln Arg Phe	Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys			
385	390	395	400	
Met Ser Gln Glu Pro Glu	Ile Asn Lys Asp Gly Asp Arg Glu Val Glu			
	405	410	415	
Glu Glu Met Lys Lys His	Glu Ser Asn Asn Val Gly Leu Leu Glu Asn			
	420	425	430	
Leu Thr Asn Gly Val Thr	Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro			
	435	440	445	
Gln Arg Lys Ser Arg Thr	Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu			
	450	455	460	
Ser Glu Glu Tyr His Arg	Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu			
465	470	475	480	
Lys Gln Met Pro Lys Tyr	Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp			
	485	490	495	
Leu Lys Leu Thr Ser Glu	Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu			
	500	505	510	
Asn Gly Gln Pro Glu Leu	Glu Asn Phe Met Ala Ile Glu Glu Met Lys			
	515	520	525	
Lys His Gly Ser Thr His	Val Gly Phe Pro Glu Asn Leu Thr Asn Gly			
	530	535	540	
Ala Thr Ala Gly Asn Gly	Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser			
545	550	555	560	
Arg Thr Pro Glu Ser Gln	Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr			
	565	570	575	
His Ser Asp Glu Gln Asn	Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln			
	580	585	590	
Asn Thr Gly Ile Leu His	Asp Glu Ile Leu Ile His Glu Glu Lys Gln			
	595	600	605	
Ile Glu Val Val Glu Lys	Met Asn Ser Glu Leu Ser Leu Ser Cys Lys			
	610	615	620	
Lys Glu Lys Asp Ile Leu	His Glu Asn Ser Thr Leu Arg Glu Glu Ile			
625	630	635	640	
Ala Met Leu Arg Leu Glu	Leu Asp Thr Met Lys His Gln Ser Gln Leu			
	645	650	655	

<210> 380
 <211> 671
 <212> PRT
 <213> Homo sapien

<400> 380
Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
1 5 10 15
Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
20 25 30
Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
35 40 45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
50 55 60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
65 70 75 80
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
85 90 95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
100 105 110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
115 120 125

131

Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
130						135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180					185					190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
		195					200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
210						215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235					240
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
				245					250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260					265					270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
		275					280					285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
	290					295					300				
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310					315					320
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345					350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile
	355						360					365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu
	370					375					380				
Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys
385					390					395					400
Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu
				405					410					415	
Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly	Leu	Leu	Glu	Asn
			420					425					430		
Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro
		435					440					445			
Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu
	450					455					460				
Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser	Asp	Tyr	Lys	Glu
465					470					475					480
Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp
				485					490					495	
Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu
			500					505					510		
Asn	Gly	Gln	Pro	Glu	Lys	Arg	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp
		515						520				525			
Gly	Asp	Arg	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile	Glu	Glu	Met	Lys	Lys
	530					535					540				
His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn	Leu	Thr	Asn	Gly	Ala
545					550					555					560
Thr	Ala	Gly	Asn	Gly	Asp	Asp	Gly	Leu	Ile	Pro	Pro	Arg	Lys	Ser	Arg
				565					570						575
Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu	Asn	Glu	Glu	Tyr	His
			580					585						590	

132

Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln Asn
 595 600 605
 Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln Ile
 610 615 620
 Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys Lys
 625 630 635 640
 Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala
 645 650 655
 Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 660 665 670

<210> 381
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 381
 ggagaagcgt ctgctggggc aggaaggggt ttccctgccc tctcacctgt ccctcaccaa 60
 ggtaacatgc ttcccctaag ggtatcccaa cccaggggcc tcaccatgac ctctgagggg 120
 ccaatatccc aggagaagca ttggggaggt gggggcaggt gaaggacca ggactcacac 180
 atcctgggcc tccaaggcag aggagaggggt cctcaagaag gtcaggagga aaatccgtaa 240
 caagcagtca g 251

<210> 382
 <211> 3279
 <212> DNA
 <213> Homo sapiens

<400> 382
 cttcctgcag ccccatgct ggtgaggggc acgggcagga acagtggacc caacatggaa 60
 atgctggagg gtgtcaggaa gtgatcgggc tctggggcag ggaggagggg tggggagtgt 120
 cactgggagg ggacatcctg cagaaggtag gagttagcaa acaccgctg caggggaggg 180
 gagagccctg cggcacctgg gggagcagag ggagcagcac ctgcccaggc ctgggaggag 240
 gggcctggag ggcgtgagga ggagcgagg ggctgcatgg ctggagttag ggatcagggg 300
 cagggcgcgga gatggcctca cacaggggaag agagggcccc tcttcgaggg cctcacctgg 360
 gccacaggag gacactgctt ttctcttgag gagttaggag ctgtggatgg tgctggacag 420
 aagaaggaca gggcctggct caggtgtcca gaggctgtcg ctggcttccc ttgaggatca 480
 gactgcaggg agggagggcg gcagggttgt ggggggagtg acgatgagga tgacctgggg 540
 gtggtctcag gccttgcccc tgcttggggc ctccccagc ctccctcaca gtctcctggc 600
 cctcagtctc tcccctccac tccatcctcc atctggcctc agtgggtcat tctgatcact 660
 gaactgacca taccagccc tgcccacggc cctccatggc tccccaatgc cctggagagg 720
 ggacatctag tcagagagta gtccatgaaga ggtggcctct gcgatgtgcc tgtgggggca 780
 gcatcctgca gatggtccc gccctcatcc tgtgacctg tctgcaggga ctgtcctoct 840
 ggaccttgcc ccttgtgcag gactggacc ctgaagtccc ctccccatag gccaagactg 900
 gagccttggt cctctgttg gactccctgc ccatattctt gtgggagtgg gttctggaga 960
 catttctgtc tgttcttgag agctgggaat tgcctcagc catctgcctg cgcggttctg 1020
 agagatggag ttgcctaggc agttattggg gccaatcttt ctactgtgt ctctcctoct 1080
 ttacccttag ggtgattctg ggggtccact tgtctgtaat ggtgtgcttc aaggatatcac 1140
 atcatggggc cctgagccat gtgccctgcc tgaagagcct gctgtgtaca ccaaggtggg 1200
 gcattaccgg aagtggatca agacacccat cgcagccaac cctgagtgcc cctgttccca 1260
 cccctacctc tagtaaatat aagtccacct cacgttctgg catcacttgg cctttctgga 1320
 tgctggacac ctgaagcttg gaactcacct ggccgaagct cgagcctcct gagtccact 1380
 gacctgtgct ttctgggtgt ggtccagggt ctgctaggaa aaggaatggg cagacacagg 1440
 tgtatgocaa tgtttctgaa atgggtataa ttttgtcctc tccttcggaa cactggotgt 1500
 ctctgaagac ttctcgctca gtttcagtga ggacacacac aaagacgtgg gtgacctagt 1560
 tgtttgtggg gtgcagagat gggggcaggtg gggcccccac tggaagagtg gacagtga 1620
 caaggtggac actctctaca gatcactgag gataagctgg agccacaatg catgaggcac 1680
 acacacagca aggttgacgc tgtaaacata gccacgctg tcctgggggc actgggaagc 1740

```

ctagataagg ccgtgagcag aaagaagggg aggatcctcc tatgttgttg aaggaggggac 1800
taggggggaga aactgaaagc tgattaatta caggagggttt gttcagggtcc cccaaaccac 1860
cgtcagatttt gatgattttcc tagcaggact tacagaaata aagagctatc atgctgtggt 1920
ttattatggt ttgttacatt gataggatac atactgaaat cagcaaaca aacagatgta 1980
tagattagag tgtggagaaa acagaggaaa acttgacagtt acgaagactg gcaacttggc 2040
tttactaagt tttcagactg gcaggaagtc aaacctatta ggctgaggac cttgtggagt 2100
gtagctgac cagctgatag aggaactagc caggtggggg ctttccctt tggatggggg 2160
gcatatccga agttatttct ctccaagtgg agacttacgg acagcatata attctccctg 2220
caaggatgta tgataatatg tacaaagtaa ttccaactga ggaagctcac ctgatcotta 2280
gtgtccaggg tttttactgg gggctctgtag gacgagtatg gactacttga ataattgacc 2340
tgaagtcttc agacctgagg ttccctagag ttcaaacaga tacagcatgg tccagagtcc 2400
cagatgtaca aaaacaggga ttcatcaca atcccatctt tagcatgaag ggtctggcat 2460
ggcccaaggc cccaagtata tcaaggcact tgggcagaac atgccaagga atcaaagtgc 2520
atctcccagg agttattcaa ggtgagccc ttacttggg atgtacaggc tttagcagt 2580
gcagggtctgc tgagtcaacc ttttattgta caggggatga gggaaagga gaggatgagg 2640
aagccccctt ggggatttgg tttggtcttg tgatcaggtg gtctatgggg ctatccctac 2700
aaagaagaat ccagaaatag gggcacattg aggaatgata ctgagcccaa agagcattca 2760
atcattgttt tatttgcctt cttttcacac cattggtgag ggagggatta ccaccctggg 2820
gttatgaaga tggttgaaca ccccacacat agcaccggag atatgagatc aacagtttct 2880
tagccataga gattcacagc ccagagcagg aggacgctgc acaccatgca ggatgacatg 2940
ggggatgctgc tcgggatttg tgtgaagaag caaggactgt tagaggcagg ctttatagta 3000
acaagacggg ggggcaaact ctgatttccg tgggggaatg tcatggtctt gctttactaa 3060
gttttgagac tggcaggtag tgaaactcat taggctgaga accttgtgga atgcagctga 3120
cccagctgat agaggaagta gccaggtggg agcctttccc agtgggtgtg ggacatatct 3180
ggcaagattt tgtggcactc ctggttacag atactggggc agcaaataaa actgaatctt 3240
gttttcagac cttaaaaaaa aaaaaaaaaa aaaagtttt 3279

```

<210> 383

<211> 154

<212> PRT

<213> Homo sapiens

<400> 383

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Met Ala Gly Val Arg Asp Gln Gly Gln Gly Ala Arg Trp Pro His Thr
                    5                      10                      15
Gly Lys Arg Gly Pro Leu Leu Gln Gly Leu Thr Trp Ala Thr Gly Gly
                    20                      25                      30
His Cys Phe Ser Ser Glu Glu Ser Gly Ala Val Asp Gly Ala Gly Gln
                    35                      40                      45
Lys Lys Asp Arg Ala Trp Leu Arg Cys Pro Glu Ala Val Ala Gly Phe
                    50                      55                      60
Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
                    65                      70                      75                      80
Ser Asp Asp Glu Asp Asp Leu Gly Val Ala Pro Gly Leu Ala Pro Ala
                    85                      90                      95
Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu
                    100                     105                     110
Pro Ser Thr Pro Ser Ser Ile Trp Pro Gln Trp Val Ile Leu Ile Thr
                    115                     120                     125
Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn
                    130                     135                     140
Ala Leu Glu Arg Gly His Leu Val Arg Glu
145                      150

```

<210> 384

<211> 557

<212> DNA

<213> Homo sapiens

<400> 384

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ggatcctcta gagcgccgc ctactactac taaattcgcg gccgcgtcga cgaagaagag 60
aaagatgtgt tttgttttgg actctctgtg gtcccttcca atgctgtggg ttccaacca 120
ggggaagggt cccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggt 180
tctgcctcct ggccaagcag gctggtttgc aagaatgaaa tgaatgattc tacagctagg 240
acttaacctt gaaatggaaa gtcttgcaat ccatttgca ggatccgtct gtgcacatgc 300
ctctgtagag agcagcattc ccagggacct tggaaacagt tggcactgta aggtgcttgc 360
tccccaagac acatcctaaa aggtgttgta atggtgaaaa cgtcttctt ctttattgcc 420
ccttcttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaagt 480
tcaattgtga aaatgaatat catgcaaata aattatgcga tttttttttc aaagtaaaaa 540
aaaaaaaaa aaaaaaa 557

```

<210> 385

<211> 337

<212> DNA

<213> Homo sapiens

<400> 385

```

ttcccagggtg atgtgcgagg gaagacacat ttactatcct tgatggggct gattccttta 60
gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120
tctcaaagcc atctgctgtc ttcgagtacg gacacatcat cactcctgca ttgttgatca 180
aaacgtggag gtgcttttcc tcagctaaga agcccttagc aaaagctcga atagacttag 240
tatcagacag gtccagtttc cgcaccaaca cctgctggtt ccctgtcgtg gtctggatct 300
ctttggccac caattcccc tttccacat ccggca 337

```

<210> 386

<211> 300

<212> DNA

<213> Homo sapiens

<400> 386

```

gggcccgtc cgggccagg ccccgctcg cgagtcctcc tccccgggtg cctgcccga 60
gccgcgtcgg ccagagggt gggcgcggg ctgcctctac cggctggcgg ctgtaactca 120
gcgaccttgg ccgaaggct ctagcaagg cccaccgacc ccagccgagg cggcgggcggc 180
gcggaacttt cccggtgtgt gggcgggagc ggactgcgtg tccgcggacg ggcagcgaag 240
atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300

```

<210> 387

<211> 537

<212> DNA

<213> Homo sapiens

<400> 387

```

gggcccagtc gggcaccaag ggactctttg caggcttctt tcctcggatc atcaaggctg 60
ccccctcctg tgccatcatg atcagcacct atgagttcgg caaaagcttc ttccagaggc 120
tgaaccagga ccggttctg ggcggtgaa aggggcaagg aggcaaggac ccgctctctc 180
ccacggatgg ggagagggca ggaggagacc cagccaagtg ctttttctc agcactgagg 240
gaggggggctt gtttcccttc cctcccggcg acaagctcca gggcagggt gtccctctgg 300
gcggccacgc acttcctcag acacaacttc ttctgctgc tccagtcgtg gggatcatca 360
cttaccacc cccaagttc aagaccaaatt cttccagctg ccccttctgt gtttccctgt 420
gtttgctgta gctgggcatg tctccaggaa ccaagaagcc ctgagcctgg tgtagtctcc 480
ctgacccttg ttaattcctt aagtctaaag atgatgaact tcaaaaaaaaa aaaaaaa 537

```

<210> 388

<211> 520

<212> DNA

<213> Homo sapiens

135

```

<400> 388
aggataatTTT ttaaaccaat caaatgaaaa aaacaaacaa acaaaaaagg aaatgtcatg 60
tgaggTTaAAA ccagTTTgca ttcccctaata gtggaaaaaag taagaggact actcagcact 120
gTTTgaagat tgcctcttct acagctttctg agaattgtgt tatttcactt gccaagtga 180
ggacccccctc cccaacatgc ccagcccac ccctaagcat ggtcccttgt caccaggcaa 240
ccaggaaact gctacttgtg gacctacca gagaccagga gggTTtggtt agctcacagg 300
acttccccca cccagaaga ttagcatccc atactagact cataactcaac tcaactaggc 360
tcatactcaa ttgatggTTa ttagacaatt ccatttcttt ctggTTatta taaacagaaa 420
atcttttctc ttctcattac cagtaaaggc tcttggtatc tttctgttg aatgatttct 480
atgaacttgt cttattttta tggTgggtt tttttctggt 520

```

```

<210> 389
<211> 365
<212> DNA
<213> Homo sapiens

```

```

<400> 389
cgTTgcccc gTTtgacaga aggaaaggcg gagcttattc aaagtctaga gggagtggag 60
gagTTaaggc tggatttcag atctgcctgg ttccagccgc agtgtgccct ctgctcccc 120
aacgactttc caaataatct caccagcgcc ttccagctca ggcgtcctag aagcgtcttg 180
aagcctatgg ccagctgtct ttgtgttccc tctcaccgc ctgtcctcac agctgagact 240
cccaggaaac cttcagacta ccttctctg ccttcagcaa ggggcgttg ccacattctc 300
tgagggtcag tggaagaacc tagactccca ttgctagagg tagaaagggg aagggtgctg 360
gggag 365

```

```

<210> 390
<211> 221
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(221)
<223> n = A,T,C or G

```

```

<400> 390
tgctctcca tcttgcccc gacttctctg tcaggaaagt ggggatggac cccatctgca 60
tacacggnTT ctcatgggtg tggaacatct ctgcttgccg tttcaggaag gcctctggct 120
gctctangag tctgancnga ntcgttgccc cantntgaca naaggaaagg cggagcttat 180
tcaaagtcta gaggagtgagg aggagTTaag gctggatttc a 221

```

```

<210> 391
<211> 325
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(325)
<223> n = A,T,C or G

```

```

<400> 391
tggagcaggT cccgaggcct ccctagagcc tggggccgac tctgtgncga tgcangcttt 60
ctctcgccgc cagcctggag ctgctcctgg catctaccaa caatcagncg aggcgagcag 120
tagccagggc actgctgcca acagccagtc onnataccat catgtnaccc ggtgngctct 180
naantTngat ntccanagcc ctaccatcn tagttctgct ctcccaccgg ntaccagccc 240
cactgcccag gaatcctaca gccagtaccc tgtcccgcag tctctaccta ccagtacgat 300

```

gagacctccg gctactacta tgacc

325

<210> 392

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(277)

<223> n = A,T,C or G

<400> 392

```
atattgttta actccttccct ttatatcttt taacattttc atggngaaag gttcacatct 60
agtctcactt nggcnagngn ctctacttgc agtctcttcc cgggcctggn ccagtnagna 120
antaccanga accgncatgn cttaanaacn ncctgggttn tgggttnntc aatgactgca 180
tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggagg 240
ctgaggatac agcgccgcgt cctgtgttgc tgggggaa 277
```

<210> 393

<211> 566

<212> DNA

<213> Homo sapiens

<400> 393

```
actagtccag tgtggtggaa ttgcggccgc cgtcgacgga caggtcagct gtctgggtca 60
gtgatctaca ttctgaagtt gtctgaaaat gtcttcatga ttaaattcag cctaaacggt 120
ttgccgggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcgggca 180
gagaagggtct agttttgtcca tcagcattat catgatatac ggactgggta ctgggttaag 240
gaggggtcta ggagatctgt cccttttaga gacaccttac ttataatgaa gtatttggga 300
gggtgggtttt caaaagtaga aatgtcctgt attcogatga tcctcctgta aacattttat 360
catttattaa tcctccctgc ctgtgtctat tattatattc atatctctac gctggaaact 420
ttctgcctca atgtttactg tgcccttgtt ttgtctagtt tgtgttgttg aaaaaaaaaa 480
cattctctgc ctgagtttta atttttgtcc aaagtatttt taatctatac aattaaaagc 540
ttttgcctat caaaaaaaaaa aaaaaa 566
```

<210> 394

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(384)

<223> n = A,T,C or G

<400> 394

```
gaacatacat gtcccggcac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60
tgcaaattnng gaccgggcca aggctggact gctggagcgt gtgaaggagc tacaggccna 120
gcaggaggac cgggctttta ggagttttta gctgagtgct actgtagacc ccaaatacca 180
tcccaagatt atcggggagaa agggggcagc aattacccaa atccggttgg agcatgacgt 240
gaacatccag tttcctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
agggtacgaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
tgagcagatg gtttctgagg acgt 384
```

<210> 395

<211> 399

<212> DNA

137

<213> Homo sapiens

<400> 395

```

ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgac 60
tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
tatcagaggt ttcatcattg cggaaattgt ggagtctaag gaaatcatgg cctctgaagt 180
attcacgtct ttccagtagc ctgagttctc tatagagttg cctaacacag gcagaattgg 240
ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
caagttctct ttggaaagcc tgggcacatc ctactacag acctctgacc atgggacggt 360
gcagcctggt gagaccatcc aatcccaa ataatgcac 399

```

<210> 396

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(403)

<223> n = A,T,C or G

<400> 396

```

tggagttntc agtgcaaaca agccataaag cttcagtagc aaattactgt ctcacagaaa 60
gacattttca acttctgctc cagctgctga taaaacaaat catgtgttta gcttgactcc 120
agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggagtt gttagtagat 180
actaaaaaaaa gtggatgaat aatctggata tttttcctaa aaagattcct tgaaacacat 240
taggaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
gtttagggga gggagtgagg gataaaagaa ggaaaaaaag aagagtgaga aaacctattt 360
atcaaagcag gtgctatcac tcaatgtag gccctgctct ttt 403

```

<210> 397

<211> 100

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(100)

<223> n = A,T,C or G

<400> 397

```

actagtnacg tgtgggtggaa ttcgcggccg cgtcgacctc naanccatct ctatagcaaa 60
tccatccccg ctctggttg gtnacagaat gactgacaaa 100

```

<210> 398

<211> 278

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(278)

<223> n = A,T,C or G

<400> 398

```

gcggcgcgct cgacagcagt tccgccagcg ctgcgccctg ggtggggatg tgctgcacgc 60
ccacctggac atctggaagt cagcggcctg gatgaaagag cggacttcac ctggggcgat 120
tcactactgt gcctcgacca gtgaggagag ctggaccgac agcgaggtgg actcatcatg 180

```

138

```
ctccgggcag cccatccacc tggggcagtt cctcaaggag ttgctactca agccccacag 240
ctatggccgc ttcat tangt ggctcaacaa ggagaagg 278
```

```
<210> 399
<211> 298
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G
```

```
<400> 399
acggaggtgg aggaagcgnc cctgggatcg anaggatggg tcctgncatt gaccnccctn 60
ggggtgccng catggagcgc atggggcgcgg gcctgggcca cggcatggat cgcgtgggct 120
ccgagatcga gcgcattggg ctgggtcatgg accgcatggg ctccgtggag cgcattgggct 180
ccggcattga gcgcattggg ccgctggggc tcgaccacat ggccctccanc attganccga 240
tgggccagac catggagcgc attggctctg gcgtggagcn catgggtgcc ggcattggg 298
```

```
<210> 400
<211> 548
<212> DNA
<213> Homo sapiens
```

```
<400> 400
acatcaacta cttcctcatt ttaaggatat gcagttccct tcctcccttt ttctgcctt 60
gtacatgtac atgtatgaaa ttcccttctc ttaccgaact ctctccacac atcacaagggt 120
caaagaacca cagccttaga agggttaagag ggcaccctat gaaatgaaat ggtgatttct 180
tgagtctctt ttttccacgt ttaagggggc atggcaggac ttagagttgc gagttaagac 240
tgcagagggc tagagaatta ttccatacag gctttgaggc caccatgtc acttatcccg 300
tataccctct caccatcccc ttgtctactc tgatgcccc aagatgcaac tgggcagcta 360
gttgccccca taattctggg cctttgttgt ttgttttaat tacttgggca tcccaggaag 420
ctttccagtg atctcctacc atgggcccc ctctgggat caagcccctc ccaggccctg 480
tccccagccc ctctgcccc agcccacccg cttgccttgg tgctcagccc tccattggg 540
agcagggtt 548
```

```
<210> 401
<211> 355
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(355)
<223> n = A,T,C or G
```

```
<400> 401
actgtttcca tgttatgttt ctacacattg ctacctcagt gctcctggaa acttagcttt 60
tgatgtctcc aagtagtcca ccttcattta actctttgaa actgtatcat ctttgccaag 120
taagagtggg ggcctatttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180
tataaatgaa tgtgctgaag caaagtgcc atgggtggcg cgaagaagan aaagatgtgt 240
tttgttttgg actctctgtg gtcccttcca atgctgnngg tttccaacca ggggaagggt 300
cccttttgca ttgccaaagt ccataaccat gagcactact ctaccatggn tctgc 355
```

```
<210> 402
<211> 407
<212> DNA
```

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(407)

<223> n = A,T,C or G

<400> 402

```
atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60
tctcacatgc ggtggcatac ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
aaatggaaaa cagaaaaaag caggtgttgc actoctactt tctgacaaaa cagactatgc 180
gaataaagat aaaaaagaga aggacattac aaaggtgggc ctgacctttg ataaatctca 240
ttgtcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgttgagg 300
ttgtggagct tctcccctgc agagagtccc tgatctccca aaatttggtt gagatgtaag 360
gntgattttg ctgacaactc cttttctgaa gttttactca tttccaa 407
```

<210> 403

<211> 303

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(303)

<223> n = A,T,C or G

<400> 403

```
cagtatttat agccnaactg aaaagctagt agcaggcaag tctcaaatcc aggcacccaaa 60
tcctaagcaa gagccatggc atggtgaaaa tgcaaaagga gagtctggcc aatctacaaa 120
tagagaacaa gacctactca gtcattgaaca aaaaggcaga caccaacatg gatctcatgg 180
gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240
tcttaacaac gaccgaaacc cattattttac ataaacctcc attcggtaac catgttgaaa 300
gga 303
```

<210> 404

<211> 225

<212> DNA

<213> Homo sapiens

<400> 404

```
aagtgttaact tttaaaaatt tagtggattt tgaaaattct tagaggaaag taaaggaaaa 60
attgttaatg cactcattta cctttacatg gtgaaagtgc tctcttgatc ctacaaacag 120
acattttoca ctcggtgttc catagtgtgt aagtgtatca gatgtgttgg gcatgtgaat 180
ctccaagtgc ctgtgtaata aataaagtat ctttatttca ttcat 225
```

<210> 405

<211> 334

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(334)

<223> n = A,T,C or G

<400> 405

```
gagctgttat actgtgagtt ctactaggaa atcatcaaat ctgagggttg tctggaggac 60
ttcaatacac ctcccccat agtgaatcag cttccagggg gtccagtccc tctccttact 120
```

140

```

tcatccccat cccatgccaa aggaagaccc tccctccttg gctcacagcc ttctctaggc 180
ttcccagtg ctcaggaca gagggtgta tgttttcagc tccatccttg ctgtgagtg 240
ctggtgcggg tgtgcctcca gcttctgctc agtgcttcat ggacagtgtc cagcccatgt 300
cactctccac tctctcanng tggatccac ccct 334

```

```

<210> 406
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

```

```

<400> 406
tttcatacct aatgagggag ttganatnac atnnaaccag gaaatgcatg gatctcaang 60
gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcacttgct 120
acnaaacaca aatttnatgt tgcacccttg tttctacacc tgtgggttat gacaaagaca 180
actgccaaag aatnttcaag aaggaggact gccant 216

```

```

<210> 407
<211> 413
<212> DNA
<213> Homo sapiens

```

```

<400> 407
gctgacttgc tagtatcatc tgcattcatt gaagcacaag aacttcatgc cttgactcat 60
gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120
gtacaacatt gcacccagtg tcagattcta cacctggcca ctgaggaagc aagagttaat 180
cccagaggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240
ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300
tgccagacag gagaaagtct tcccatgtta aaagacattt attatcttgt tttcctgtca 360
tgggagttcc agaaaaagtt aaaacagaca atgggcccagg ttctgtagta aag 413

```

```

<210> 408
<211> 183
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(183)
<223> n = A,T,C or G

```

```

<400> 408
ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtcct ttgnnattaa 60
tnccttaacta gttaatcctt aaagggctan ntaatcctta actagtccct ccattgtgag 120
cattatcctt ccagtattcn ccttctnttt tatttactcc ttctgggcta cccatgtact 180
ntt 183

```

```

<210> 409
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

141

<222> (1)...(250)

<223> n = A,T,C or G

<400> 409

```

cccacgcatg ataagctcctt tattttctgta agtcctgcta ggaaatcatc aaatctgacg 60
gtgggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
gcttcccgat gcccccagga cagcgtgggc tatgtttaca gcgcntcctt gctggggggg 240
ggcctatgc                                     250

```

<210> 410

<211> 306

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(306)

<223> n = A,T,C or G

<400> 410

```

ggctgggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttgcaa tcccatttgc aggatccgct tgtgcacatg cctctgtaga gagcagcatt 120
cccagggacc ttggaaacag ttggcactgt aagggtgctt ctccccaaga cacatcctaa 180
aagggtgttgt aatggtgaaa accgcttct tctttattgc cccttcttat ttatgtgaac 240
nactgggttg ctttttttgn atctttttta aactggaaag ttcaattgng aaaatgaata 300
tcntgc                                     306

```

<210> 411

<211> 261

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(261)

<223> n = A,T,C or G

<400> 411

```

agagatattn cttaggtnaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaagtgc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa gngaggcaa a                                     261

```

<210> 412

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(241)

<223> n = A,T,C or G

<400> 412

```

gttcaatgtt acctgacatt tctacaacac ccactcacc gatgtattcg ttgccagtg 60
ggaacatacc agcctgaatt tggaaaaaat aattgtgttt cttgcccagg aaatactacg 120

```

142

```

actgactttg atgggtccac aaacataacc cagtgtaaaa acagaagatg tggaggggag 180
ctgggagatt tcaactggga cattgaattc ccaaactacc cangcaatta cccagccaac 240
a                                                    241

```

```

<210> 413
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

```

```

<400> 413
aactcttaca atccaagtga ctcatctgtg tgcttgaatc ctttccactg tctcatctcc 60
ctcatccaag tttctagtag ctctctcttg ttgtgaagga taatcaaact gaacaacaaa 120
aagtttactc tcttcatttg gaacctaaaa actctottct tcttggtctt gagggctcca 180
agaatccttg aatcanttct cagatcattg gggacaccan atcaggaacc t          231

```

```

<210> 414
<211> 234
<212> DNA
<213> Homo sapiens

```

```

<400> 414
actgtccatg aagcactgag cagaagctgg aggcacaacg caccagacac tcacagcaag 60
gatggagctg aaaacataac ccactctgtc ctggaggcac tgggaagcct agagaaggct 120
gtgagccaag gagggagggt cttccttttg catgggatgg ggatgaagta aggagaggga 180
ctggaccccc tggaagctga ttcactatgg ggggaggtgt attgaagtcc tcca      234

```

```

<210> 415
<211> 217
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(217)
<223> n = A,T,C or G

```

```

<400> 415
gcataggatt aagactgagt atctttttcta cattctttta acttttctaag gggcacttct 60
caaaacacag accaggtagc aaatctccac tgctctaagg ntctcaccac cactttctca 120
cacctagcaa tagtagaatt cagtcctact tctgaggcca gaagaatggt tcagaaaaat 180
antggattat aaaaaataac aattaagaaa aataatc          217

```

```

<210> 416
<211> 213
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(213)
<223> n = A,T,C or G

```

```

<400> 416

```


143

```

atgcataatnt aaagganact gcctcgcttt tagaagacat ctggncctgct ctctgcatga 60
ggcacagcag taaagctctt tgattcccag aatcaagaac tctccccttc agactattac 120
cgaatgcaag gtggttaatt gaaggccact aattgatgct caaatagaag gatattgact 180
atattggaac agatggagtc tctactacaa aag 213

```

```

<210> 417
<211> 303
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G

```

```

<400> 417
nagtcttcag gccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60
gtgggaaagg ctttactctg agttcaaata ttcaagccca tcagagagtc cacactggag 120
agaagccata caaatgcaat gagtgtggga agagcttcag gagggattcc cattatcaag 180
ttcatctagt ggtccacaca ggagagaaaac cctataaatg tgagatatgt gggaagggct 240
tcantcaaag ttcgtatctt caaatccatc ngaaggncca cagtatanan aaacctttta 300
agt 303

```

```

<210> 418
<211> 328
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

```

```

<400> 418
tttttggcgg tgggtggggca gggacgggac angagtctca ctctgttgcc caggctggag 60
tgcacaggca tgatctcggc tcaactacaac ccctgcctcc catgtccaag cgattcttgt 120
gcctcagcct tccctgtagc tagaattaca ggcacatgcc accacaccca gctagttttt 180
gtatttttag taagacagg gtttcaccat gttggccagg ctgggtctcaa actcctnacc 240
tcagnggtca ggctgggtctc aaactcctga cctcaagtga tctgcccacc tcagcctccc 300
aaagtgctan gattacaggc cgtgagcc 328

```

```

<210> 419
<211> 389
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(389)
<223> n = A,T,C or G

```

```

<400> 419
cctcctcaag acggcctgtg gtccgcctcc cggcaaccaa gaagcctgca gtgccatatg 60
acccctgagc catggactgg agcctgaaag gcagcgtaca ccctgctcct gatcttgctg 120
cttgtttcct ctctgtggct ccattcatag cacagttgtt gcaactgaggc ttgtgcaggc 180
cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggt gtgccaggca 240
ccggttctcc agccaccaac ctcaactcgt cccgcaaagt gcacatcagt tcttctaccc 300
taaaggtagg accaaagggc atctgctttt ctgaagtccct ctgctctatc agccatcacg 360

```

144

tggcagccac tcnggctgtg tcgacgcgg

389

<210> 420

<211> 408

<212> DNA

<213> Homo sapiens

<400> 420

```

gttcctccta actcctgcc aaacagctc tctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggt tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
gtccattga cacttttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcctgaat gagtctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgcctatg acaaacctgg caagcccg 408

```

<210> 421

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(352)

<223> n = A,T,C or G

<400> 421

```

gctcaaaaat ctttttactg atnngcatgg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacagggtct tttttgggtc cttcttctcc accacnatat acttgagtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacaggtg tagaaacaag 240
ggtgcaacat gaaatttctg tttcgtagca agtgcattgc tcacaagttg gcangtctgc 300
cactocgagt ttattgggtg tttgtttcct ttgagatcca tgcatttctc gg 352

```

<210> 422

<211> 337

<212> DNA

<213> Homo sapiens

<400> 422

```

atgccaccat gctggcaatg cagcgggcgg tcgaaggcct gcataatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgcccgaagt tgccgatgcc agccgaagcg gtgggtcaagg 120
gcatagcaa ggtgccggcg atcgcggcg cgtcaatcct ggccaaggtc agccgtgatc 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcggcggg cataagggct 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacgccg attcaccgac 300
gcttcttccg ccggtacggc tggcctatga aaattat 337

```

<210> 423

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(310)

<223> n = A,T,C or G

<400> 423

145

```

gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
aggagaatga ggccctggcct gggagccctg tgcctactan aagcncatta gattatccat 120
tcaactgacag aacagggtctt ttttgggtcc ttcttctcca ccacgatata cttgcagtcc 180
tccttcttga agattctttg gcagttgtct ttgtcataac ccacagggtg anaaacaagg 240
gtgcaacatg aaatttctgt ttcgtagcaa gtgcatgtct cacagttgtc aagtctgccc 300
tccgagttta                                     310

```

```

<210> 424
<211> 370
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(370)
<223> n = A,T,C or G

```

```

<400> 424
gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60
ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120
cactgacaga acagggtctt tttgggtcct tcttctccac cagcatatac ttgcagtcct 180
ccttcttgaa gattcttttg cagttgtctt tgtcataacc cacagggtga gaaacatcct 240
ggttgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300
cacgaagggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360
tccgtcgacg                                     370

```

```

<210> 425
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

```

```

<400> 425
aattgctatn ntttattttg ccactcaaaa taattaccaa aaaaaaaaaa tnttaaattga 60
taacaacnca acatcaaggn aaananaaca ggaatggntg actntgcata aatnggcoga 120
anattatcca ttatnttaag ggttgacttc aggnacagc acacagacaa acatgcccag 180
gaggntntca ggaccgctcg atgtnttntg aggagg                                     216

```

```

<210> 426
<211> 596
<212> DNA
<213> Homo sapiens

```

```

<400> 426
cttcagtgga ggataaccct gttgccccgg gccgaggttc tccattaggc tctgattgat 60
tggcagtcag tgatggaagg gtgttctgat cattccgact gccccaaggg tcgctggcca 120
gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatggtga 180
gctgtccttg tatttttgatt aacctaatgg ccttcccagc acgactcgga ttcagctgga 240
gacatcacgg caacttttaa tgaaatgatt tgaagggccca ttaagaggca cttcccgtta 300
ttaggcagtt catctgcact gataacttct tggcagctga gctggtcgga gctgtggccc 360
aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420
ggtggaatggc cttttcagct ttaacccaat ttgactgcc ttggaagtgt agccaggaga 480
atacactcat atactcgtgg gcttagaggc cacagcagat gtcattggtc tactgcctga 540
gtcccgtctg tcccatccca ggaccttcca tcggcgagta cctgggagcc cgtgct 596

```

146

<210> 427
 <211> 107
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(107)
 <223> n = A,T,C or G

<400> 427
 gaagaattca agttaggttt attcaaaggg cttacngaga atcctanacc caggncccag 60
 cccgggagca gccttanaga gtcctgttt gactgcccg ctcagn 107

<210> 428
 <211> 38
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(38)
 <223> n = A,T,C or G

<400> 428
 gaacttccna anaangactt tattcactat ttacatt 38

<210> 429
 <211> 544
 <212> DNA
 <213> Homo sapiens

<400> 429
 ctttgctgga cgggaataaaa gtggacgcaa gcatgacctc ctgatgaggg cgctgcattt 60
 attgaagagc ggctgcagcc ctgcggttca gattaaaatc cgagaattgt atagacgcog 120
 atatccacga actcttgaag gactttctga tttatccaca atcaaatcat cggttttcag 180
 tttggatggg ggctcatcac ctgtagaacc tgacttggcc gtggctggaa tccactcgtt 240
 gccttccact tcagttacac ctcactcacc atcctctcct gttggttctg tgctgcttca 300
 agatactaag cccacatttg agatgcagca gccatctccc ccaattctc ctgtccatcc 360
 tgatgtgcag ttaaaaaatc tgccctttta tgatgtcctt gatgttctca tcaagcccac 420
 gagtttagtt caaagcagta ttcagcgatt tcaagagaag ttttttattt ttgctttgac 480
 acctcaacaa gtttagagaga tatgcatatc cagggatttt ttgccagggtg gtaggagaga 540
 ttat 544

<210> 430
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(507)
 <223> n = A,T,C or G

<400> 430
 cttatcncaa tggggctccc aaacttggct gtgcagtggg aactccgggg gaattttgaa 60
 gaacactgac acccatcttc caccocgaca ctctgattta attgggctgc agtgagaaca 120

147

```

gagcatcaat ttaaaaagct gccagaatg ttntcctggg cagcgttggt atctttgccn 180
ccttcgtgac tttatgcaat gcatcatgct atttcatacc taatgagga gttccaggag 240
attcaaccag gatgtttcta cncctgtggg ttatgacaaa gacaactgcc aaagaatntt 300
caagaaggag gactgcaagt atatcgtggt ggagaagaag gacccaaaaa agacctgttc 360
tgtcagtgaa tggataatct aatgtgcttc tagtaggcac agggctccca ggccaggcct 420
cattctcttc tggcctctaa tagtcaatga ttgtgtagcc atgcctatca gtaaaaagat 480
ttttgagcaa aaaaaaaaaa aaaaaaa

```

```

<210> 431
<211> 392
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

```

```

<400> 431
gaaaattcag aatggataaa aacaaatgaa gtacaaaata tttcagattt acatagcgat 60
aaacaagaaa gcaattatca ggaggactta caaatggaag tacactctan aaccatcatc 120
tatcatggct aaatgtgaga ttagcacagc tgtattatit gtacattgca aacacctaga 180
aagagatggg aaacaaaatc ccaggagttt tgtgtgtgga gtcctggggt ttccaacaga 240
catcattcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300
acaaaagtga tgttggttagg taaaatgtac aacttctgga tctatgcaga cattgaagggt 360
gcaatgagtc tggcttttac tctgctgttt ct

```

```

<210> 432
<211> 387
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(387)
<223> n = A,T,C or G

```

```

<400> 432
ggtatccnta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60
aaatgcaagg caacatgtgt agatctcttg tottattctt ttgtctataa tactgtattg 120
ngtagtccaa gctctcgga gtccagccac tgngaaacat gctcccttta gattaacctc 180
gtggacnctn ttgttgnatt gtctgaactg tagngccctg tattttgctt ctgtctgnga 240
attctgttgc ttctggggca tttccttgng atgcagagga ccaccacaca gatgacagca 300
atctgaattg ntccaatcac agctgcgatt aagacatact gaaatcgtac aggaccggga 360
acaacgtata gaacactgga gtccttt

```

```

<210> 433
<211> 281
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G

```

```

<400> 433
ttcaactagc anagaanact gcttcagggn gtgtaaaatg aaaggcttcc acgcagttat 60

```

148

```

ctgattaaag aacactaaga gagggacaag gctagaagcc gcaggatgtc tacactatag 120
caggcnctat ttgggttggc tggaggagct gtggaaaaca tggagagatt ggcgctggag 180
atcgccgtgg ctattcctcn ttgntattac accagnaggg ntctctgtnt gccactgggt 240
tnnaaaaccg ntatacaata atgatagaat aggacacaca t                281

```

<210> 434

<211> 484

<212> DNA

<213> Homo sapiens

<400> 434

```

ttttaaaata agcatttagt gctcagtccc tactgagtac tctttctctc ccctcctctg 60
aatttaattc tttcaacttg caatttgcaa ggattacaca tttcactgtg atgtatatgg 120
tgttgcaaaa aaaaaaaagt gtctttgttt aaaattactt ggtttgtaga tccatcttgc 180
tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa acatctgaag 240
agctagtcta tcagcatctg acaggtgaat tggatgggtc tcagaacccat ttcaccacaga 300
cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca taacaaaccc 360
tgctccaatc tgtcacataa aagtctgtga cttgaagttt agtcagcacc cccaccaaac 420
tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataaag taccatgtgc 480
ttta                484

```

<210> 435

<211> 424

<212> DNA

<213> Homo sapiens

<400> 435

```

gcgcgcgtca gaggcaggtca ctttctgcct tccaogtcct ccttcaagga agccccatgt 60
gggtagcttt caatatcgca ggttcttaact cctctgcctc tataagctca aaccaccaa 120
cgatcgggca agtaaacccc ctccctcgcc gacttcggaa ctggcgagag ttcagcgag 180
atgggcctgt ggggaggggg caagatagat gagggggagc ggcatgggtc ggggtgaccc 240
cttgagagag ggaaaaaggc cacaagaggg gctgccaccg ccactaacgg agatggocct 300
ggtagagacc tttgggggtc tggaacctct ggactcccca tgctctaact cccacactct 360
gctatcagaa acttaaaactt gaggattttc tctgtttttc actcgcaata aattcagagc 420
aaac                424

```

<210> 436

<211> 667

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(667)

<223> n = A,T,C or G

<400> 436

```

accttgggaa nactctcaca atataaaggg tcgtagactt tactccaaat tccaaaaagg 60
tcctggccat gtaatcctga aagttttccc aaggtagcta taaaatcctt ataagggtgc 120
agcctcttct ggaattcctc tgatttcaaa gtctcactct caagttcttg aaaacgaggg 180
cagttcctga aaggcaggta tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240
atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacagggct 300
gccaggtttg tcatagcact catcaaagtc cgggtcaacgt ctgtgcttcg aatataaacc 360
tgttcatgtt tataggactc attcaagaat tttctatatc tctttcttat atactctcca 420
agttcataat gctgctccat gcccagctgg gtgagttggc caaatccttg tggccatgag 480
gattccttta tgggggtcagt gggaaagggt tcaatgggac ttcgggtctcc atgccgaaac 540
accaaagtca caaacttcaa ctcttgggt agtacacttc ggtctagcca gaaaaaagg 600
agaaacaaga agccaaggct aaggcttgct gccctgccag gaggaggggt gcagctctca 660

```

149

tgttgag 667

<210> 437
 <211> 693
 <212> DNA
 <213> Homo sapiens

<400> 437
 ctacgtctca accctcattt ttaggtaagg aatcttaagt ccaaagatat taagtgactc 60
 acacagccag gtaaggaaag ctggattggc aactaggac tctaccatac cgggttttgt 120
 taaagctcag gttaggaggc tgataagctt ggaaggaaact tcagacagct ttttcagatc 180
 ataaaagata attccttagcc catgttcttc tccagagcag acctgaaatg acagcacagc 240
 aggtactcct ctattttcac ccctcttget tctactctct ggcagtcaga cctgtgggag 300
 gccatgggag aaagcagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360
 catttctoca ggttacccta ggtgtcacta ttggggggac agccagcatc ttttagctttc 420
 atttgagttt ctgtctgtct tcagtagagg aaacttttgc tcttcacact tcacatctga 480
 acacctaact gctgttgctc ctgaggtggt gaaagacaga tatagagctt acagtattta 540
 toctatttct aggcaactgag ggctgtgggg taccttgttg tgccaaaaca gatcctgttt 600
 taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgttg gctctttacc 660
 ctgcatcatg tgctctcttg gctgaaaatg acc 693

<210> 438
 <211> 360
 <212> DNA
 <213> Homo sapiens

<400> 438
 ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac ctctgtgact 60
 ttatgcaatg catcatgcta ttccatacct aatgagggag ttccaggaga ttcaaccagg 120
 atgtttctac acctgtgggt tatgacaaag acaactgcc aagaatcttc aagaaggagg 180
 actgcaagta tatctggttg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240
 gataatctaa tgtgcttcta gtaggcacag ggctcccagg ccaggcctca ttctcctctg 300
 gcctctaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360

<210> 439
 <211> 431
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(431)
 <223> n = A,T,C or G

<400> 439
 gttcctnnta actcctgcc aaaacagctc tctcaacat gagagctgca cccctcctcc 60
 tggccagggc agcaagcctt agccttggct tcttgtttct gcttttttcc tggctagacc 120
 gaagtgtact agccaaggag ttgaagtttg tgacttttgt gtttcggcat ggagaccgaa 180
 gtccattga cacttttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
 gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
 gatatagaaa attccttgaat ggtcctata aacatgaaca ggtttatatt cgaagcacag 360
 acgttgaccg gactttgatg agtgctatga caaacctggc agcccgctga cgcggccgag 420
 aatttagtag t 431

<210> 440
 <211> 523
 <212> DNA
 <213> Homo sapiens

150

```

<400> 440
agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaagtgc tgaaatggaa cagatttcaa aaaaaaacc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttacccat cagttccagc 240
cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
actggaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360
taaaaaattaa aacctctttg tgtcccttgg tcctggaaca tttatgttcc ttttaaagaa 420
acaaaaatca aactttacag aaagatttga tgtatgtaat acatatagca gctcttgaag 480
tatatatatc atagcaaata agtcacttga tgagaacaag cta 523

```

```

<210> 441
<211> 430
<212> DNA
<213> Homo sapiens

```

```

<400> 441
gttcctccta actcctgcc a gaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggg gtttcggcat ggagaccgaa 180
gtcccatatga cacctttccc actgacccca taaaggaatc ctcattggca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attccttgaat gagtccctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
aatttagtag 430

```

```

<210> 442
<211> 362
<212> DNA
<213> Homo sapiens

```

```

<400> 442
ctaaggaatt agtagtgttc ccactacttg tttggagtgt gctattctaa aagattttga 60
tttcttgga tgacaattat attttaactt tgggtgggga aagagttata ggaccacagt 120
cttactttct gatacttgta aattaatctt ttattgcact tgttttgacc attaagctat 180
atgttttagaa atggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240
aatgaattaa tgtttttactt aattttatatt gaactgtcaa tgacaaataa aaattctttt 300
tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360
tc 362

```

```

<210> 443
<211> 624
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(624)
<223> n = A,T,C or G

```

```

<400> 443
tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60
ttgaaagaat taaattcaga ggagggggaga gaaagagtac tcagtaggga ctgagcacta 120
aatgottatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180
tgctggctag tactccggtc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240
cccaaacac agaaaatggg gtgaaattgg ccaactttct attaaacttg cttcctgttt 300
tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaatgaac 360

```


151

```

taacgcctac aaaacactta aacatagata acatagggtgc aagtactatg tatctggtac 420
atggtaaaca tccttattat taaagtcaac gctaaaaatga atgtgtgtgc atatgctaata 480
agtacagaga gagggcactt aaaccaacta agggcctgga gggaagggtt cctggaaaga 540
ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tatttaaact 600
ttgtccctat ctgctaaaca gatac                                     624

```

<210> 444

<211> 425

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(425)

<223> n = A,T,C or G

<400> 444

```

gcacatcatt nntcttgcatt tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60
gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120
ttcattgcta tagcataaca caaaatttgc ataagtgtg gtcagcaaat ccttgaatgc 180
tgcttaatgt gagaggttgg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240
gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300
cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcctcctgt gaagagccaa 360
ggaggcacca gggcataagt gagtagactt atggtcgacg cggccgcgaa tttagtagta 420
gtaga                                     425

```

<210> 445

<211> 414

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(414)

<223> n = A,T,C or G

<400> 445

```

catgtttatg nttttggatt actttgggca cctagtgttt ctaaactcgtc tatcattctt 60
ttctgttttt caaaagcaga gatggccaga gtctcaacaa actgtatctt caagtctttg 120
tgaaattctt tgcattgtgc agattattgg atgtagtttc ctttaactag catataaatc 180
tggtgtgttt cagataaatg aacagcaaaa tgtggtggaa ttaccatttg gaacattgtg 240
aatgaaaaat tgtgtctcta gattatgtaa caaataacta tttcctaacc attgatcttt 300
ggatttttat aatcctactc acaaatgact aggcctctcc tcttgtattt tgaagcagtg 360
tgggtgctgg attgataaaa aaaaaaaaaa tcgacgcggc cgcgaattta gtag      414

```

<210> 446

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(631)

<223> n = A,T,C or G

<400> 446

```

acaaattaga anaaagtgcc agagaacacc acataccttg tccggaacat tacaatggct 60
tctgcatgca tgggaagtgt gagcattcta tcaatatgca ggagccatct tgcagggtgtg 120

```

152

```

atgctgggta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttggtc 180
ccggtcctgt acgatttcag tatgtcttaa tcgcagctgt gattggaaca attcagattg 240
ctgtcatctg tgtgggtggtc ctctgcatca caagggccaa actttaggta atagcattgg 300
actgagattt gtaaaactttc caaccttcca ggaaatgccc cagaagcaac agaattcaca 360
gacagaagca aaatacaggg cactacagtt cagacaatac aacaagagcg tccacgaggt 420
taatctaaag ggagcatggt tcacagtggc tggactaccg agagcttggg ctacacaata 480
cagtattata gacaaaagaa taagacaaga gatctacaca tgttgccctg catttggtgt 540
aatctacacc aatgaaaaca tgtactacag ctatatattga ttatgtatgg atatatattga 600
aatagtatac attgtcttga tgttttttct g                                     631

```

```

<210> 447
<211> 585
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(585)
<223> n = A,T,C or G

```

```

<400> 447
ccttgggaaa antntcacaa tataaagggt cgtagacttt actccaaatt ccaaaaagggt 60
cctggccatg taatcctgaa agttttccca aggtagctat aaaatcctta taaggggtgca 120
gcctcttctg gaattcctct gatttcaaag tctcactctc aagtctctga aaacgagggc 180
agttcctgaa aggcaggtat agcaactgat cttcagaaaag aggaactgtg tgcaccggga 240
tgggctgcca gagtaggata ggattccaga tgctgacacc ttctggggga aacagggctg 300
ccagggtttgt catagcactc atcaaaagtcc ggtaaacgtc tgtgcttcga atataaacct 360
gttcatgttt ataggactca ttcaagaatt ttctatatct ctttcttata tactctccaa 420
gttcataatg ctgctccatg cccagctggg tgagttggcc aaatccttgt ggccatgagg 480
attcctttat ggggtcagtg ggaaagggtg caatgggact tcggtctcca tgccgaaaca 540
ccaaagtcac aaacttcaac tccttggtca gtacacttcg gtcta                                     585

```

```

<210> 448
<211> 93
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(93)
<223> n = A,T,C or G

```

```

<400> 448
tgctcgtggg tcattctgan nnccgaactg accntgccag ccctgccgan gggccnccat 60
ggctccctag tgccctggag agganggggc tag                                     93

```

```

<210> 449
<211> 706
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

```

```

<400> 449
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153

```

ttctgancac cgaactgacc atgccagccc tgccgatggt cctccatggc tccctagtgc 120
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cggggacagc atcctgcaga tggctcgggcg cgtcccattc gccattcagg ctgcgcaact 240
gttgggaagg gcgatcgggt cgggcctctt cgctattacg ccagctggcg aaagggggat 300
gtgctgcaag gcgattaagt tgggtaacgc caggggtttc ccagtcncga cgttgtaaaa 360
cgacggccag tgaattgaat ttaggtgaacn ctatagaaga gctatgacgt cgcagtcacg 420
cgtacgtaag cttggatcct ctagagcggc agcctactac tactaaattc gcggccgcgt 480
cgacgtggga tccnactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600
aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncccca 660
gcatggatga cagagtgaag ctccatctta aaaaaaaaaa aaaaaa 706

```

```

<210> 450
<211> 493
<212> DNA
<213> Homo sapiens

```

```

<400> 450
gagacggagt gtcactctgt tgcccagggt ggagtgcagc aagacactgt ctaagaaaaa 60
acagttttta aaggtaaaac aacataaaaa gaaatatcct atagtggaaa taagagagtc 120
aaatgagggt gagaacttta caaagggatc ttacagacat gtcgccaata tcaactgcatg 180
agcctaagta taagaacaac ctttggggag aaaccatcat ttgacagtga ggtacaattc 240
caagtcagggt agtgaaatgg gtggaattaa actcaaatta atcctgccag ctgaaacgca 300
agagacactg tcagagagtt aaaaagttag ttctatccat gaggtgattc cacagttctc 360
tcaagtcaac acatctgtga actcacagac caagttctta aaccactgtt caaactctgc 420
tacacatcag aatcacctgg agagctttac aaactcccat tgccgagggt cgacgcgggc 480
gcgaatttag tag 493

```

```

<210> 451
<211> 501
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G

```

```

<400> 451
gggcgcgtcc cattcgccat tcaggctgcg caactgttgg gaagggcgat cgggtgcgggc 60
ctcttcgcta ttacgccagc tggcgaaagg gggatgtgct gcaaggcgat taagttgggt 120
aacgccaggg ttttcccagt cncgacgttg taaaacgacg gccagtgaat tgaatttagg 180
tgacnctata gaagagctat gacgtcgcat gcacgcgtac gtaagcttgg atcctctaga 240
gcggccgcct actactacta aattcgcggc cgcgtcgacg tgggatccnc actgagagag 300
tggagagtga catgtgctgg acnctgtcca tgaagcactg agcagaagct ggaggcacia 360
cgcnccagac actcacagct actcaggagg ctgagaacag gttgaacctg ggagggtggag 420
gttgcaatga gctgagatca ggcnctgcn ccccagcatg gatgacagag tgaaactcca 480
tcttaaaaaa aaaaaaaaaa a 501

```

```

<210> 452
<211> 51
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(51)
<223> n = A,T,C or G

```

154

<400> 452
 agacgggttcc accntttacaa cnccttttag gatgggnntt ggggagcaag c 51

<210> 453
 <211> 317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(317)
 <223> n = A,T,C or G

<400> 453
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 acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatgggtc tcagaaccat 120
 ttcacccana cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180
 taacaaaccc tgctccaatc tgtcacataa aagtctgtga cttgaagttt antcagcacc 240
 cccaccaaac tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300
 taccatgtc tttatta 317

<210> 454
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 454
 ttcgaggtag aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60
 taagccaagc cagcctcttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120
 agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180
 ccttcctttt tcagtgttcc aaagctcctc acaatttcat gaacaacagc t 231

<210> 455
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 455
 taccaaagag ggcataataa tcagtctcac agtaggggtc accatcctcc aagtgaaaaa 60
 cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120
 gtttcaacgc attgatgact tctccaagga tcttcctttg gcatcgacca cattcagggg 180
 caaagaattt ctcatagcac agtcacaaat acagggtctc tttctcctct a 231

<210> 456
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 456
 ttggcaggta cccttataaa gaagacacca taccttatgc gttattaggt ggaataatca 60
 ttccattcag tattatcggtt attattcttg gagaaaccct gtctgtttac tgtaaccttt 120
 tgcactcaaa ttcctttatc aggaataact acatagccac tatttataaa gccattggaa 180
 cctttttatt tgggtgcagct gctagtcaat cctgactga cattgccaag t 231

<210> 457
 <211> 231
 <212> DNA

155

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(231)

<223> n = A,T,C or G

<400> 457

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gcattcctta atatgatctt gctataatta gatttttctc cattagagtt catcacgttt 120
tatttgattt tatttagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
agttgtctaa atcgatgcct catttcctct gaggtgtcgc tggcttttgt g 231
```

<210> 458

<211> 231

<212> DNA

<213> Homo sapiens

<400> 458

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aggtcttggtt cccccactt ccactcccct ctactctctc taggactggg ctgggccaaag 60
agaagagggg tgggttagga agccgttgag acctgaagcc ccaccctcta ctttccttca 120
acaccctaac cttgggtaac agcatttgga attatcattt gggatgagta gaatttccaa 180
ggtcctgggt taggcatttt ggggggccag accccaggag aagaagattc t 231
```

<210> 459

<211> 231

<212> DNA

<213> Homo sapiens

<400> 459

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ggtaccgagg ctgctgaca cagagaaacc ccaacgcgag gaaaggaatg gccagccaca 60
ccttcgcgaa acctgtggtg gccaccagt cctaacggga caggacagag agacagagca 120
gccctgcact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgctttcc 180
actatacaca gtcaccgtcc caatgagaaa caagaaggag caccctccac a 231
```

<210> 460

<211> 231

<212> DNA

<213> Homo sapiens

<400> 460

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gcagggtataa catgctgcaa caacagatgt gactaggaac ggccggtgac atggggaggg 60
cctatcaccc tattcttggg ggctgcttct tcacagtgat catgaagcct agcagcaaat 120
cccacctccc cacacgcaca cggccagcct ggagcccaca gaagggtcct cctgcagcca 180
gtggagcttg gtcacgcctc cagtccaccc ctaccaggct taaggataga a 231
```

<210> 461

<211> 231

<212> DNA

<213> Homo sapiens

<400> 461

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cgagggttga gaagctctaa tgtgcagggg agccgagaag caggcgcctt agggaggggtc 60
gcgtgtgctc cagaagagtg tgtgcatgcc agaggggaaa caggcgcctg tgtgtcctgg 120
gtgggggttca gtgaggagtg ggaaattggt tcagcagaac caagccgttg ggtgaataag 180
agggggattc catggcactg atagagccct atagtttcag agctgggaat t 231
```

<210> 462

156

<211> 231
 <212> DNA
 <213> Homo sapiens

<400> 462
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 gggtcattgca agtataaaaa ttaaaaaaaa aagacttcat gcccaatctc atatgatgtg 120
 gaagaactgt tagagagacc aacagggtag tgggttagag atttccagag tcttacattt 180
 tctagaggag gtattttaatt tcttctcact catccagtgt tgtatttagg a 231

<210> 463
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 463
 tactccagcc tgggtgacaga gcgagaccct atcaccgccc cccaccccac caaaaaaaaa 60
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 catttgacag gtgtcttttc ctctggacct cgggtgtccc atctgagtga gaaaaggcag 180
 tggggagggtg gatcttccag tcgaagcggt atagaagccc gtgtgaaaag c 231

<210> 464
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 464
 gtactctaag attttatcta agttgccttt tctgggtggg aaagttaac cttagtgact 60
 aaggacatca catatgaaga atgtttaagt tggagggtggc aacgtgaatt gcaaacaggg 120
 cctgcttcag tgactgtgtg cctgtagtc cagctactcg ggagtctgtg tgaggccagg 180
 ggtgccagcg caccagctag atgctctgta acttctaggc cccattttcc c 231

<210> 465
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 465
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 aggatggcac aatttttgc tgtgttcata atatactcag attagttagg ctccatcaga 180
 taaactggag acatgcagga cattagggtg gtgtttagc tctggtaatg a 231

<210> 466
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 466
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 ggccttcgaa cagaacttgc cacataccca ggtataatag tttctaact ttgccagga 120
 cctgtgcaat caaatattgt ggagaattcc cttagctggag aagtcacaaa gactataggc 180
 aataatggag accagtccca caagatgaca accagtcggt gtgtgcggct g 231

<210> 467
 <211> 311
 <212> DNA
 <213> Homo sapiens

157

<400> 467

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gcatgggtct	ctgcccgaagc	tcgtaatgag	actatagcaa	ggcggctgtg	ggacgtcagt	240
tgtgacctgc	tgggcctccc	aatagactaa	caggcagtg	cagttggacc	caagagaaga	300
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<210> 468

<211> 3112

<212> DNA

<213> Homo sapiens

<400> 468

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158

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<210> 469

<211> 2229

<212> DNA

<213> Homo sapiens

<400> 469

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<210> 470

<211> 2426

<212> DNA

<213> Homo sapiens

<400> 470

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<212> DNA

<213> Homo sapiens

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160

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<211> 1594

<212> DNA

<213> Homo sapiens

<400> 474

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<210> 476

<211> 3434

<212> DNA

<213> Homo sapiens

<400> 476

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```

<210> 477

<211> 140

<212> PRT

<213> Homo sapiens

165

<400> 477

```

Met Asp Gly His Thr Asp Ile Trp Arg Asn His Met Asp Thr Pro Pro
      5                      10                      15
His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr
      20                      25                      30
Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
      35                      40                      45
His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
      50                      55                      60
His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
      65                      70                      75                      80
Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
      85                      90                      95
Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
      100                     105                     110
Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
      115                     120                     125
Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln
      130                     135                     140

```

<210> 478

<211> 143

<212> PRT

<213> Homo sapiens

<400> 478

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Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
      5                      10                      15
Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
      20                      25                      30
Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr
      35                      40                      45
His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
      50                      55                      60
Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
      65                      70                      75                      80
Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser
      85                      90                      95
His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp
      100                     105                     110
Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser
      115                     120                     125
His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val
      130                     135                     140

```

<210> 479

<211> 222

<212> PRT

<213> Homo sapiens

<400> 479

```

Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
      5                      10                      15
Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
      20                      25                      30

```

166

Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr
 35 40 45
 His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
 50 55 60
 Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
 65 70 75 80
 Pro Thr His Cys His Met Asp Thr Ala Thr His Thr Ala Thr Leu Ser
 85 90 95
 His Gly His Thr Ser Ile Pro Ser His His His Thr His Cys His Val
 100 105 110
 Asp Thr Arg Thr His Arg His Cys His Thr Asp Thr Gln Asn Thr Val
 115 120 125
 Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr
 130 135 140
 Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His
 145 150 155 160
 Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala
 165 170 175
 Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp
 180 185 190
 Thr Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala
 195 200 205
 Arg Leu Cys Leu Lys Lys Arg Lys Lys Lys Gln Tyr Thr Val
 210 215 220

<210> 480

<211> 144

<212> PRT

<213> Homo sapiens

<400> 480

Met Glu Pro Tyr Arg Gly Asn Glu Gln Pro Ser Gln Glu Gln Gly Val
 5 10 15
 Cys Cys Leu Trp Gly Leu Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr
 20 25 30
 Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg
 35 40 45
 Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly
 50 55 60
 Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln
 65 70 75 80
 Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys
 85 90 95
 Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly
 100 105 110
 Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu
 115 120 125
 Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
 130 135 140

<210> 481

<211> 167

<212> PRT

<213> Homo sapiens

<400> 481

167

```

Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro
      5              10              15
Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
      20              25              30
Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
      35              40              45
Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
      50              55              60
Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro
      65              70              75              80
Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg
      85              90              95
Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala
      100             105             110
Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His
      115             120             125
Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe
      130             135             140
Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser
145              150              155              160
Trp Leu Ser Arg Gly Arg Pro
      165

```

<210> 482
 <211> 143
 <212> PRT
 <213> Homo sapiens

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<400> 482
Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val
      5              10              15
Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu
      20              25              30
Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg
      35              40              45
Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly
      50              55              60
Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe
      65              70              75              80
Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr
      85              90              95
Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly
      100             105             110
Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys
      115             120             125
Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly
130              135              140

```

<210> 483
 <211> 143
 <212> PRT
 <213> Homo sapiens

```

<400> 483
Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val
      5              10              15
Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala

```

168

20 25 30
 Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp
 35 40 45
 Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu
 50 55 60
 Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp
 65 70 75 80
 Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg
 85 90 95
 Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val
 100 105 110
 Arg Leu Val Gln Ala Glu His Pro Pro His Pro Leu Glu Glu Val
 115 120 125
 Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys
 130 135 140

<210> 484
 <211> 30
 <212> PRT
 <213> Homo Sapien

<400> 484
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
 1 5 10 15
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile
 20 25 30

<210> 485
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 485
 gggaagctta tcacctatgt gccgcctctg c

31

<210> 486
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 486
 gcgaattctc acgctgagta tttggcc

27

<210> 487
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 487

169

cccggaattct tagctgccca tccgaacgcc ttcatac

36

<210> 488
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 488
 gggaagcttc ttccccggt gcaccagctg tgc

33

<210> 489
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 489
 Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala
 1 5 10 15
 Ser Val Ala

<210> 490
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 490
 Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
 1 5 10 15
 Leu Ser His Ser
 20

<210> 491
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 491
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
 1 5 10 15
 Thr Gly Phe Thr
 20

<210> 492
 <211> 20
 <212> PRT

170

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 492

Ala	Leu	Thr	Gly	Phe	Thr	Phe	Ser	Ala	Leu	Gln	Ile	Leu	Pro	Tyr	Thr
1				5					10					15	
Leu	Ala	Ser	Leu												
			20												

<210> 493

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 493

Tyr	Thr	Leu	Ala	Ser	Leu	Tyr	His	Arg	Glu	Lys	Gln	Val	Phe	Leu	Pro
1				5					10					15	
Lys	Tyr	Arg	Gly												
			20												

<210> 494

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 494

Leu	Pro	Lys	Tyr	Arg	Gly	Asp	Thr	Gly	Gly	Ala	Ser	Ser	Glu	Asp	Ser
1				5				10						15	
Leu	Met	Ile	Ser												
			20												

<210> 495

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 495

Asp	Ser	Leu	Met	Thr	Ser	Phe	Leu	Pro	Gly	Pro	Lys	Pro	Gly	Ala	Pro
1				5					10					15	
Phe	Pro	Asn	Gly												
			20												

<210> 496

<211> 21

<212> PRT

<213> Artificial Sequence

171

<220>

<223> Made in a lab

<400> 496

Ala	Pro	Phe	Pro	Asn	Gly	His	Val	Gly	Ala	Gly	Gly	Ser	Gly	Leu	Leu
1				5				10						15	
Pro	Pro	Pro	Pro	Ala											
				20											

<210> 497

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 497

Leu	Leu	Pro	Pro	Pro	Ala	Leu	Cys	Gly	Ala	Ser	Ala	Cys	Asp	Val
1				5				10					15	
Ser	Val	Arg	Val											
				20										

<210> 498

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 498

Asp	Val	Ser	Val	Arg	Val	Val	Val	Gly	Glu	Pro	Thr	Glu	Ala	Arg	Val
1				5				10						15	
Val	Pro	Gly	Arg												
				20											

<210> 499

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 499

Arg	Val	Val	Pro	Gly	Arg	Gly	Ile	Cys	Leu	Asp	Leu	Ala	Ile	Leu	Asp
1				5				10						15	
Ser	Ala	Phe	Leu												
				20											

<210> 500

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

172

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<223> Made in a lab

<400> 500
Leu Asp Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met
1          5          10          15
Gly Ser Ile Val
20

<210> 501
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 501
Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met
1          5          10          15
Val Ser Ala Ala
20

<210> 502
<211> 414
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(414)
<223> n=A,T,C or G

<400> 502
caccatggag acaggcctgc gctggctttt cctggctcgt gtgctcaaag gtgtccaatg      60
tcagtcggtg gaggagtccg ggggtcgcct ggtcacgcct gggacacctt tgacantcac      120
ctgtagagtt tttggaatng acctcagtag caatgcaatg agctgggtcc gccaggctcc      180
aggggaaggg ctggaatgga tcggagccat tgataattgt ccacantacg cgacctgggc      240
gaaaggccga ttnatnattt ccaaaacctn gaccacggtg gatttgaaaa tgaccagtcc      300
gacaaccgag gacacggcca cctatttttg tggcagaatg aatactggta atagtggttg      360
gaagaatatt tggggcccag gcaccctggt caccgtntcc tcagggcaac ctaa          414

<210> 503
<211> 379
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(379)
<223> n=A,T,C or G

<400> 503
atncgatggt gcttgggtcaa aggtgtccag tgtcagtcgg tggaggagtc cgggggtcgc      60
ctggtcacgc ctgggacacc cctgacactc acctgcaccg tntctggatt ngacatcagt      120
agctatggag tgagctgggt ccgccaggct ccagggaagg ggctgggnata catcggatca      180
ttagtagtag tggtagattt tacgcgagct gggcgaaagg ccgattcacc atttccaaaa      240
cctngaccac ggtggatttg aaaatcacca gtttgacaac cgaggacacg gccacctatt      300
tntgtgccag aggggggttt aattataaag acatttgggg ccagggcacc ctggtcaccg      360

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173

tntccttagg gcaacctaa

379

<210> 504
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 504
 Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu
 1 5 10 15
 Asn Ser Ala

<210> 505
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 505
 Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr
 1 5 10 15
 Asn Thr Ala Asn
 20

<210> 506
 <211> 407
 <212> DNA
 <213> Homo Sapien

<400> 506
 atggagacag gcctgcgctg gcttctcctg gtcgctgcgc tcaaagggtgt ccagtgtcag 60
 tcgctggagg agtccggggg tcgcctggtc acgcctggga cacccttgac actcacctgc 120
 accgtctctg gattctccct cagtagcaat gcaatgatct gggtcgccca ggctccaggg 180
 aaggggctgg aatacatcgg atacattagt tatggtggta gcgcatacta cgcgagctgg 240
 gtgaaaggcc gattcaccat ctccaaaacc tcgaccacgg tggatctgag aatgaccagt 300
 ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgattt tagtggatatg 360
 ttgtggggcc caggcaccct ggtcaccgtc tcctcagggc aacctaa 407

<210> 507
 <211> 422
 <212> DNA
 <213> Homo Sapien

<400> 507
 atggagacag gcctgcgctg gcttctcctg gtcgctgtgc tcaaagggtgt ccagtgtcag 60
 tcgggtggagg agtccggggg tcgcctggtc acgcctggga cacccttgac actcacctgt 120
 acagtctctg gattctccct cagcaactac gacctgaact gggtcgccca ggctccaggg 180
 aaggggctgg aatggatcgg gatcattaat tatgttggta ggacggacta cgcgaactgg 240
 gccaaaaggcc ggttcaccat ctccaaaacc tcgaccacgg tggatctcaa gatcgccagt 300
 ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct 360
 ggtccgtgct tgcgcatctg gggcccaggc accctgggtca ccgtctcctt agggcaacct 420

174

aa

422

<210> 508
 <211> 411
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(411)
 <223> n=A,T,C or G

<400> 508
 atggagacag gcctcgctgg cttctcctgg tcgctgtgct caaaggtgtc cagtgtcagt 60
 cggtggagga gtccgggggt cgcctgggta cgcctgggac acccctgaca ctcacctgca 120
 cagtctctgg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccaggga 180
 aggggctgga atggatcgga atcattggta ctctgtgtga cacatactac gcgaggtggg 240
 cgaaaggccg attcaccatc tccaaaacct cgaccacggt gcatntgaaa atcnccagtc 300
 cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta 360
 ctgggttatta taaaatctgg ggcccaggca ccttggtcac cgtctccttg g 411

<210> 509
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 509
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 1 5 10 15

<210> 510
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 510
 Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile
 1 5 10 15

<210> 511
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 511

Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln Lys
 1 5 10 15

175

<210> 512
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 512
 Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu
 1 5 10 15

<210> 513
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 513
 Ala Pro Cys Gly Gln Val Gly Val Pro Asx Val Tyr Thr Asn Leu
 1 5 10 15

<210> 514
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 514
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 1 5 10 15

<210> 515
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 515
 Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg
 1 5 10 15

<210> 516
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 516
 Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln

176

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1              5              10              15

    <210> 517
    <211> 15
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> Made in a lab

    <400> 517
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met
1              5              10              15

    <210> 518
    <211> 15
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> Made in a lab

    <400> 518
Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
1              5              10              15

    <210> 519
    <211> 17
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> Made in a lab

    <400> 519
Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg Asn Tyr Asp Glu Gly Cys
1              5              10              15
Gly

    <210> 520
    <211> 25
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> Made in a lab

    <400> 520
Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
1              5              10              15
Glu Ala Arg Arg His Tyr Asp Glu Gly
20              25

    <210> 521
    <211> 21
    <212> PRT
    <213> Artificial Sequence

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177

<220>

<223> Made in a lab

<400> 521

Ala	Pro	Phe	Pro	Asn	Gly	His	Val	Gly	Ala	Gly	Gly	Ser	Gly	Leu	Leu
1				5					10					15	
Pro	Pro	Pro	Pro	Ala											
				20											

<210> 522

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 522

Leu	Leu	Val	Val	Pro	Ala	Ile	Lys	Lys	Asp	Tyr	Gly	Ser	Gln	Glu	Asp
1				5					10					15	
Phe	Thr	Gln	Val												
			20												

<210> 523

<211> 254

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<220>

<221> VARIANT

<222> (1)...(254)

<223> Xaa = any amino acid

<400> 523

Met	Ala	Thr	Ala	Gly	Asn	Pro	Trp	Gly	Trp	Phe	Leu	Gly	Tyr	Leu	Ile
1				5					10					15	
Leu	Gly	Val	Ala	Gly	Ser	Leu	Val	Ser	Gly	Ser	Cys	Ser	Gln	Ile	Ile
		20						25					30		
Asn	Gly	Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu
		35					40					45			
Val	Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln
	50					55					60				
Trp	Val	Leu	Ser	Ala	Thr	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly
65					70				75					80	
Leu	Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met
			85						90					95	
Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu
		100						105					110		
Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu
		115					120					125			
Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala
	130					135					140				
Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg
145					150					155					160

178

Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
 165 170 175
 Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
 180 185 190
 Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser Gly
 195 200 205
 Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
 210 215 220
 Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
 225 230 235 240
 Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 245 250

<210> 524
 <211> 765
 <212> DNA
 <213> Homo sapien

<400> 524
 atggccacag caggaaatcc ctggggctgg ttcttgggggt acctcatcct tgggtgtcgca 60
 ggatcgctcg tctctggtag ctgcagccaa atcataaacg gcgaggactg cagcccgcac 120
 tcgcagccct ggcaggcggc actggtcatg gaaaacgaat tgttctgctc gggcgctcctg 180
 gtgcacccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 240
 ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc 300
 ctctccgtac ggcacccaga gtacaacaga cccttgctcg ctaacgacct catgctcatc 360
 aagttggaag aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag 420
 tgccctaccg cggggaactc ttgcctcggt tctggctggg gtctgctggc gaacggcaga 480
 atgcctaccg tgctgcagtg cgtgaacgtg tcggtggtgt ctgaggaggt ctgcagtaag 540
 ctctatgacc cgctgtacca cccagcatg ttctgcgccg gcggagggca agaccagaag 600
 gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 660
 gtgtctttcg gaaaagcccc gtgtggccaa gttggcgtgc caggtgtcta caccaacctc 720
 tgcaaattca ctgagtggat agagaaaacc gtccaggcca gtttaa 765

<210> 525
 <211> 254
 <212> PRT
 <213> Homo sapien

<400> 525
 Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
 1 5 10 15
 Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
 20 25 30
 Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
 35 40 45
 Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
 50 55 60
 Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
 65 70 75 80
 Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
 85 90 95
 Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
 100 105 110
 Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
 115 120 125
 Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
 130 135 140
 Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg

179

145		150		155		160									
Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu
				165					170					175	
Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys
			180					185					190		
Ala	Gly	Gly	Gln	Asp	Gln	Lys	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly	
		195				200					205				
Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly
	210				215					220					
Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu
225				230				235						240	
Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser		
			245				250								

<210> 526
 <211> 963
 <212> DNA
 <213> Homo sapiens

<400> 526
 atgagttcct gcaacttcac acatgccacc tttgtgctta ttggtatccc aggattagag 60
 aaagccatt tctgggttgg cttccccctc ctttccatgt atgtagtggc aatgtttggg 120
 aactgcatcg tggctctcat cgtaaggacg gaacgcagcc tgcacgctcc gatgtacctc 180
 tttctctgca tgcttgacgc cattgacctg gccttatcca catccaccat gcctaagatc 240
 cttgcccttt tctggtttga ttcccgagag attagctttg aggcctgtct taccagatg 300
 ttctttattc atgccctctc agccattgaa tccaccatcc tgctggccat ggcctttgac 360
 cgttatgtgg ccatctgcc aacctgogc catgctgcag tgctcaaca tacagtaaca 420
 gccagattg gcatcgtggc tgtggtcgc ggatccctct ttttttccc actgcctctg 480
 ctgatcaagc ggctggcctt ctgccactcc aatgtcctct cgcaactccta ttgtgtccac 540
 caggatgtaa tgaagtggc ctatgcagac actttgccc atgtggtata tggctttact 600
 gccattctgc tggtcattgg cgtggacgta atgttcatct ccttgtcta tttctgata 660
 ataogaacgg ttctgcaact gccttccaag tcagagcggg ccaaggcctt tggaacctgt 720
 gtgtcacaca ttggtgtggt actgccttc tatgtgccac ttattggcct ctcaagtgtg 780
 caccgctttg gaaacagcct tcatccatt gtgcgtgttg tcatgggtga catctacctg 840
 ctgctgcctc ctgtcatcaa tcccatcatc tatggtgcca aaaccaaaca gatcagaaca 900
 cgggtgctgg ctatgttcaa gatcagctgt gacaaggact tgcaggctgt gggaggcaag 960
 tga 963

<210> 527
 <211> 320
 <212> PRT
 <213> Homo sapiens

<400> 527
 Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
 5 10 15
 Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
 20 25 30
 Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
 35 40 45
 Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
 50 55 60
 Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
 65 70 75 80
 Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
 85 90 95
 Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
 100 105 110

180

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Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
    115                      120                      125
Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
    130                      135                      140
Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
    145                      150                      155                      160
Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
    165                      170                      175
Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
    180                      185                      190
Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
    195                      200                      205
Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
    210                      215                      220
Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
    225                      230                      235                      240
Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
    245                      250                      255
Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
    260                      265                      270
Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
    275                      280                      285
Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala
    290                      295                      300
Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys
    305                      310                      315                      320

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<210> 528
<211> 20
<212> DNA
<213> Homo Sapien

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```

<400> 528
actatggtcc agaggctgtg

```

20

```

<210> 529
<211> 20
<212> DNA
<213> Homo Sapien

```

```

<400> 529
atcacctatg tgccgcctct

```

20

```

<210> 530
<211> 1852
<212> DNA
<213> Homo sapiens

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<400> 530
ggcacgagaa ttaaaaccct cagcaaaaca ggcatagaag ggacatacct taaagtaata 60
aaaaccacct atgacaagcc cacagccaac ataatactaa atggggaaaa gttagaagca 120
tttcctctga gaactgcaac aataaataca aggatgctgg attttgtcaa atgccttttc 180
tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240
ttattgactt gcctgtgtta gaccggaaga gctgggggtg ttctcaggag ccaccgtgtg 300
ctgcggcagc ttcgggataa cttgaggctg catcactggg gaagaaacac aytctgtgcc 360
gtggcgctga tggctgagga cagagcttca gtgtggcttc tctgcgactg gcttcttcgg 420
ggagttcttc cttcatagtt catccatatg gctccagagg aaaattatat tattttgtta 480
tggatgaaga gtattacgtt gtgcagatat actgcagtgt cttcatctct tgatgtgtga 540

```

181

```

ttgggtaggt tccaccatgt tgccgcagat gacatgattt cagtacctgt gtctggctga 600
aaagtgtttg tttgtgaatg gataattgtg tttctggatc tcatcctctg tgggtggaca 660
gctttctcca ctttgcctga agtgacctgc tgtccagaag tttgatggct gaggagtata 720
ccatcgtgca tgcattcttc atttctctgc tttcttcctc cctggatgga cagggggagc 780
ggcaagagca acgtgggcac ttctggagac cacaacgact cctctgtgaa gacgcttggg 840
agcaagaggt gcaagtgggt ctgccactgc ttccctctgt gcagggggag cggcaagagc 900
aacgtgggtc cttggggaga ctacgatgac agcgcttca tggatcccag gtaccacgtc 960
catggagaag atctggacaa gctccacaga gctgcctggg ggggtaaagt ccccgaaag 1020
gatctcatcg tcatgctcag ggacacggat gtgaacaaga gggacaagca aaagaggact 1080
gctctacatc tggcctctgc caatgggaat tcagaagtag taaaactcgt gctggacaga 1140
cgatgtcaac ttaatgtcct tgacaacaaa aagaggacag ctctgacaaa ggccgtacaa 1200
tgccaggaag atgaatgtgc gttaatgttg ctggaacatg gcactgatcc aaatattcca 1260
gatgagtatg gaaataccac tctacactat gctgtctaca atgaagataa attaatggcc 1320
aaagcaactgc tcttatacgg tgctgatatc gaatcaaaaa acaagcatgg cctcacacca 1380
ctgctacttg gtatacatga gcaaaaacag caagtgggtg aatttttaat caagaaaaaa 1440
gccaatttaa atgcgctgga tagatatgga agaactgctc tcatacttgc tgtatgttgt 1500
ggatcagcaa gtatagtcag ccctctactt gagcaaaatg ttgatgtatc ttctcaagat 1560
ctggaaagac ggccagagag tatgctgttt ctagtcatca tcatgtaatt tgccagttac 1620
tttctgacta caaagaaaaa cagatgttaa aaatctcttc tgaaaacagc aatccagaac 1680
aagacttaaa gctgacatca gaggaagagt cacaaggct taaaggaaat gaaaacagcc 1740
agccagagct agaagattta tggctattga agaagaatga agaacacgga agtactcatg 1800
tgggattccc agaaaacctg actaacggtg ccgctgctgg caatggtgat ga 1852

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<210> 531

<211> 879

<212> DNA

<213> Homo sapiens

<400> 531

```

atgcattctt catttctctgc atttcttctc ccctggatgg acagggggag cggcaagagc 60
aacgtgggca cttctggaga ccacaacgac tctctgtga agacgcttgg gagcaagagg 120
tgcaagtggg gctgccactg cttcccctgc tgcaggggga gcggcaagag caacgtgggtc 180
gcttggggag actacgatga cagcgcttcc atggatccca ggtaccacgt ccatggagaa 240
gatctggaca agctccacag agctgcctgg tggggtaaag tcccagaaa ggatctcatc 300
gtcatgctca gggacacgga tgtgaacaag agggacaagc aaaagaggac tgctctacat 360
ctggcctctg ccaatgggaa ttcagaagta gtaaaactcg tgctggacag acgatgtcaa 420
cttaatgtcc ttgacaacaa aaagaggaca gctctgacaa aggcgtaca atgccaggaa 480
gatgaatgtg cgtaaatgtt gctggaacat ggcactgac caaatattcc agatgagtat 540
ggaaatacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
ctcttatacg gtgctgatat cgaatcaaaa aacaagcatg gcctcacacc actgctactt 660
ggtatacatg agcaaaaaca gcaagtgggt aaatttttaa tcaagaaaaa agcgaattta 720
aatgcgctgg atagatatgg aagaactgct ctcatacttg ctgtatgttg tggatcagca 780
agtatagtca gccctctact tgagcaaaat gttgatgtat cttctcaaga tctggaaaga 840
cggccagaga gtatgctgtt tctagtcatc atcatgtaa 879

```

<210> 532

<211> 292

<212> PRT

<213> Homo sapiens

<400> 532

```

Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
          5                      10                      15
Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
          20                      25                      30
Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
          35                      40                      45
Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp

```

182

50	55	60
Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu		
65	70	75
Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg		
85	90	95
Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp		
100	105	110
Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser		
115	120	125
Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu		
130	135	140
Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu		
145	150	155
Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile		
165	170	175
Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu		
180	185	190
Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu		
195	200	205
Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu		
210	215	220
Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu		
225	230	235
Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys		
245	250	255
Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp		
260	265	270
Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu		
275	280	285
Val Ile Ile Met		
290		

<210> 533
 <211> 801
 <212> DNA
 <213> Homo sapiens

<400> 533
 atgtacaagc ttcaagtcaa caactgtgct acaaattggag ccacagagag gaaacaagca 60
 gcaggctcag gagcagggtg tgcgctgcct tcggctctcc aatccatgcc tcagggctcc 120
 tatgccactg cagcattcct gggttgccaag aggccaaacca caggccatct tgagaaggag 180
 tttatgttcc actgcagaaa gcagccagga tcaccatcca ggggacttgg tcttctgtgg 240
 ccctggccag acatagaatt tgtgccaagg caggacaagc tactcagag cagcgtgtta 300
 gtacctcaaa tctgtgcgtg ccagacaagg ccaaactggc tcaatgagca accagccacc 360
 tctgcagggg tgcgtctgga ggaggtggac cagccaccaa ccttaccag tcaaggaagt 420
 ggatggccat gttccacag cctgagtggc tgccacctga tggctgatag agcaaaggcc 480
 ttaggaaaag cagatggccc ttggccctac ctttttgtta gaagaactga tgttccatgt 540
 cctgcagcga gtgaggttgg tggctgtgccc cccagctcct ggcacaccct cgcagaggtg 600
 actggttgcct ctttgagccc tcttagcctt gccagcatg cacaagcctc agtgctacta 660
 ctgtgctaca aatggagcca tataggggaa acgagcagcc atctcaggag caaggtgtat 720
 gctgcctttg ggggctccag tccttgccctc aagggtctta tgtcactgtg ggcttcttgg 780
 ttgccaagag gcagaccata g 801

<210> 534
 <211> 266
 <212> PRT
 <213> Homo sapiens

183

<400> 534

```

Met Tyr Lys Leu Gln Cys Asn Asn Cys Ala Thr Asn Gly Ala Thr Glu
                    5                      10                      15
Arg Lys Gln Ala Ala Gly Ser Gly Ala Gly Tyr Ala Leu Pro Ser Ala
                20                      25                      30
Leu Gln Ser Met Pro Gln Gly Ser Tyr Ala Thr Ala Arg Phe Leu Val
                35                      40                      45
Ala Lys Arg Pro Thr Thr Gly His Leu Glu Lys Glu Phe Met Phe His
                50                      55                      60
Cys Arg Lys Gln Pro Gly Ser Pro Ser Arg Gly Leu Gly Leu Leu Trp
                65                      70                      75                      80
Pro Trp Pro Asp Ile Glu Phe Val Pro Arg Gln Asp Lys Leu Thr Gln
                85                      90                      95
Ser Ser Val Leu Val Pro Gln Ile Cys Ala Cys Gln Thr Arg Pro Asn
                100                     105                     110
Trp Leu Asn Glu Gln Pro Ala Thr Ser Ala Gly Val Arg Leu Glu Glu
                115                     120                     125
Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys
                130                     135                     140
Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala
                145                     150                     155                     160
Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr
                165                     170                     175
Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser
                180                     185                     190
Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu
                195                     200                     205
Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys
                210                     215                     220
Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr
                225                     230                     235                     240
Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu
                245                     250                     255
Trp Ala Ser Trp Leu Pro Arg Gly Arg Pro
                260                     265

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<210> 535

<211> 6082

<212> DNA

<213> Homo sapiens

<400> 535

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cctccactat tacagcttat aggaaattac aatccacttt acaggcctca aaggttcatt 60
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cggagcccgc ggccactgcc gcctgatcag cgcgaccccg gcccgcgccc gccccgcccg 180
gcaagatgct gcccgtgtac caggaggtga agcccaaccg gctgcaggac gcgaacctct 240
gctcacgcgt gttcttctgg tggctcaatc ccttgtttaa aattggccat aaacggagat 300
tagaggaaga tgatatgtat tcagtgtgct cagaagaccg ctacacgcac cttggagagg 360
agttgcaagg gttctgggat aaagaagttt taagagctga gaatgacgca cagaagcctt 420
ctttaacaag agcaatcata aagtgttact ggaaatctta ttttagttttg ggaattttta 480
cgттаattga ggaaagtgcc aaagtaatcc agcccatatt tttgggaaaa attattaatt 540
attttgaaaa ttatgatccc atggattctg tggctttgaa cacagcgtag gcctatgcca 600
cggtgctgac tttttgcacg ctcatitttg ctatactgca tcacttatat ttttatcacg 660
ttcagtgtgc tgggatgagg ttacgagtag ccatgtgcca tatgatttat cggaaggcac 720
ttcgtcttag taacatggcc atggggaaga caaccacagg ccagatagtc aatctgtctg 780
ccaatgatgt gaacaagttt gatcagggtga cagtgttctt acacttcttg tgggcaggac 840

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Ile	Arg	Thr	Met	Asn	Glu	Val	Ile	Thr	Gly	Ile	Arg	Ile	Ile	Lys	Met
	275						280					285			
Tyr	Ala	Trp	Glu	Lys	Ser	Phe	Ser	Asn	Leu	Ile	Thr	Asn	Leu	Arg	Lys
	290				295						300				
Lys	Glu	Ile	Ser	Lys	Ile	Leu	Arg	Ser	Ser	Cys	Leu	Arg	Gly	Met	Asn
305					310					315					320
Leu	Ala	Ser	Phe	Phe	Ser	Ala	Ser	Lys	Ile	Ile	Val	Phe	Val	Thr	Phe
			325						330					335	
Thr	Thr	Tyr	Val	Leu	Leu	Gly	Ser	Val	Ile	Thr	Ala	Ser	Arg	Val	Phe
		340						345					350		
Val	Ala	Val	Thr	Leu	Tyr	Gly	Ala	Val	Arg	Leu	Thr	Val	Thr	Leu	Phe
	355						360					365			
Phe	Pro	Ser	Ala	Ile	Glu	Arg	Val	Ser	Glu	Ala	Ile	Val	Ser	Ile	Arg
	370				375						380				
Arg	Ile	Gln	Thr	Phe	Leu	Leu	Leu	Asp	Glu	Ile	Ser	Gln	Arg	Asn	Arg
385					390					395					400
Gln	Leu	Pro	Ser	Asp	Gly	Lys	Lys	Met	Val	His	Val	Gln	Asp	Phe	Thr
			405						410					415	
Ala	Phe	Trp	Asp	Lys	Ala	Ser	Glu	Thr	Pro	Thr	Leu	Gln	Gly	Leu	Ser
			420					425					430		
Phe	Thr	Val	Arg	Pro	Gly	Glu	Leu	Leu	Ala	Val	Val	Gly	Pro	Val	Gly
	435					440						445			
Ala	Gly	Lys	Ser	Ser	Leu	Leu	Ser	Ala	Val	Leu	Gly	Glu	Leu	Ala	Pro
	450				455						460				
Ser	His	Gly	Leu	Val	Ser	Val	His	Gly	Arg	Ile	Ala	Tyr	Val	Ser	Gln
465					470					475					480
Gln	Pro	Trp	Val	Phe	Ser	Gly	Thr	Leu	Arg	Ser	Asn	Ile	Leu	Phe	Gly
			485						490					495	
Lys	Lys	Tyr	Glu	Lys	Glu	Arg	Tyr	Glu	Lys	Val	Ile	Lys	Ala	Cys	Ala
		500						505					510		
Leu	Lys	Lys	Asp	Leu	Gln	Leu	Leu	Glu	Asp	Gly	Asp	Leu	Thr	Val	Ile
		515					520					525			
Gly	Asp	Arg	Gly	Thr	Thr	Leu	Ser	Gly	Gly	Gln	Lys	Ala	Arg	Val	Asn
	530					535					540				
Leu	Ala	Arg	Ala	Val	Tyr	Gln	Asp	Ala	Asp	Ile	Tyr	Leu	Leu	Asp	Asp
545					550					555					560
Pro	Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg	His	Leu	Phe	Glu	Leu
			565						570					575	
Cys	Ile	Cys	Gln	Ile	Leu	His	Glu	Lys	Ile	Thr	Ile	Leu	Val	Thr	His
		580						585					590		
Gln	Leu	Gln	Tyr	Leu	Lys	Ala	Ala	Ser	Gln	Ile	Leu	Ile	Leu	Lys	Asp
		595					600					605			
Gly	Lys	Met	Val	Gln	Lys	Gly	Thr	Tyr	Thr	Glu	Phe	Leu	Lys	Ser	Gly
	610					615					620				
Ile	Asp	Phe	Gly	Ser	Leu	Leu	Lys	Lys	Asp	Asn	Glu	Glu	Ser	Glu	Gln
625					630					635					640

Pro	Pro	Val	Pro	Gly	Thr	Pro	Thr	Leu	Arg	Asn	Arg	Thr	Phe	Ser	Glu	645	650	655
Ser	Ser	Val	Trp	Ser	Gln	Gln	Ser	Ser	Arg	Pro	Ser	Leu	Lys	Asp	Gly	660	665	670
Ala	Leu	Glu	Ser	Gln	Asp	Thr	Glu	Asn	Val	Pro	Val	Thr	Leu	Ser	Glu	675	680	685
Glu	Asn	Arg	Ser	Glu	Gly	Lys	Val	Gly	Phe	Gln	Ala	Tyr	Lys	Asn	Tyr	690	695	700
Phe	Arg	Ala	Gly	Ala	His	Trp	Ile	Val	Phe	Ile	Phe	Leu	Ile	Leu	Leu	705	710	715
Asn	Thr	Ala	Ala	Gln	Val	Ala	Tyr	Val	Leu	Gln	Asp	Trp	Trp	Leu	Ser	725	730	735
Tyr	Trp	Ala	Asn	Lys	Gln	Ser	Met	Leu	Asn	Val	Thr	Val	Asn	Gly	Gly	740	745	750
Gly	Asn	Val	Thr	Glu	Lys	Leu	Asp	Leu	Asn	Trp	Tyr	Leu	Gly	Ile	Tyr	755	760	765
Ser	Gly	Leu	Thr	Val	Ala	Thr	Val	Leu	Phe	Gly	Ile	Ala	Arg	Ser	Leu	770	775	780
Leu	Val	Phe	Tyr	Val	Leu	Val	Asn	Ser	Ser	Gln	Thr	Leu	His	Asn	Lys	785	790	795
Met	Phe	Glu	Ser	Ile	Leu	Lys	Ala	Pro	Val	Leu	Phe	Phe	Asp	Arg	Asn	805	810	815
Pro	Ile	Gly	Arg	Ile	Leu	Asn	Arg	Phe	Ser	Lys	Asp	Ile	Gly	His	Leu	820	825	830
Asp	Asp	Leu	Leu	Pro	Leu	Thr	Phe	Leu	Asp	Phe	Ile	Gln	Thr	Leu	Leu	835	840	845
Gln	Val	Val	Gly	Val	Val	Ser	Val	Ala	Val	Ala	Val	Ile	Pro	Trp	Ile	850	855	860
Ala	Ile	Pro	Leu	Val	Pro	Leu	Gly	Ile	Ile	Phe	Ile	Phe	Leu	Arg	Arg	865	870	875
Tyr	Phe	Leu	Glu	Thr	Ser	Arg	Asp	Val	Lys	Arg	Leu	Glu	Ser	Thr	Thr	885	890	895
Arg	Ser	Pro	Val	Phe	Ser	His	Leu	Ser	Ser	Ser	Leu	Gln	Gly	Leu	Trp	900	905	910
Thr	Ile	Arg	Ala	Tyr	Lys	Ala	Glu	Glu	Arg	Cys	Gln	Glu	Leu	Phe	Asp	915	920	925
Ala	His	Gln	Asp	Leu	His	Ser	Glu	Ala	Trp	Phe	Leu	Phe	Leu	Thr	Thr	930	935	940
Ser	Arg	Trp	Phe	Ala	Val	Arg	Leu	Asp	Ala	Ile	Cys	Ala	Met	Phe	Val	945	950	955
Ile	Ile	Val	Ala	Phe	Gly	Ser	Leu	Ile	Leu	Ala	Lys	Thr	Leu	Asp	Ala	965	970	975
Gly	Gln	Val	Gly	Leu	Ala	Leu	Ser	Tyr	Ala	Leu	Thr	Leu	Met	Gly	Met	980	985	990
Phe	Gln	Trp	Cys	Val	Arg	Gln	Ser	Ala	Glu	Val	Glu	Asn	Met	Met	Ile	995	1000	1005
Ser	Val	Glu	Arg	Val	Ile	Glu	Tyr	Thr	Asp	Leu	Glu	Lys	Glu	Ala	Pro	1010	1015	1020
Trp	Glu	Tyr	Gln	Lys	Arg	Pro	Pro	Pro	Ala	Trp	Pro	His	Glu	Gly	Val	1025	1030	1035
Ile	Ile	Phe	Asp	Asn	Val	Asn	Phe	Met	Tyr	Ser	Pro	Gly	Gly	Pro	Leu	1045	1050	1055
Val	Leu	Lys	His	Leu	Thr	Ala	Leu	Ile	Lys	Ser	Gln	Glu	Lys	Val	Gly	1060	1065	1070
Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys	Ser	Ser	Leu	Ile	Ser	Ala	Leu	1075	1080	1085
Phe	Arg	Leu	Ser	Glu	Pro	Glu	Gly	Lys	Ile	Trp	Ile	Asp	Lys	Ile	Leu	1090	1095	1100

190

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Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys Lys Met Ser Ile Ile
1105          1110          1115          1120
Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met Arg Lys Asn Leu Asp
          1125          1130          1135
Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp Asn Ala Leu Gln Glu
          1140          1145          1150
Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro Gly Lys Met Asp Thr
          1155          1160          1165
Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val Gly Gln Arg Gln Leu
          1170          1175          1180
Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile
1185          1190          1195          1200
Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln
          1205          1210          1215
Lys Lys Ser Gly Arg Asn Leu Pro Thr Ala Pro Cys
          1220          1225

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<210> 538

<211> 1261

<212> PRT

<213> Homo sapiens

<400> 538

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Met Tyr Ser Val Leu Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu
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Leu Gln Gly Phe Trp Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala
          20          25          30
Gln Lys Pro Ser Leu Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser
          35          40          45
Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val
          50          55          60
Ile Gln Pro Ile Phe Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr
          65          70          75          80
Asp Pro Met Asp Ser Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr
          85          90          95
Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr
          100          105          110
Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys
          115          120          125
His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly
          130          135          140
Lys Thr Thr Thr Gly Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn
          145          150          155          160
Lys Phe Asp Gln Val Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro
          165          170          175
Leu Gln Ala Ile Ala Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile
          180          185          190
Ser Cys Leu Ala Gly Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln
          195          200          205
Ser Cys Phe Gly Lys Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr
          210          215          220
Phe Thr Asp Ala Arg Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile
          225          230          235          240
Arg Ile Ile Lys Met Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile
          245          250          255
Thr Asn Leu Arg Lys Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys
          260          265          270
Leu Arg Gly Met Asn Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile

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		275					280					285			
Val	Phe	Val	Thr	Phe	Thr	Thr	Tyr	Val	Leu	Leu	Gly	Ser	Val	Ile	Thr
	290					295					300				
Ala	Ser	Arg	Val	Phe	Val	Ala	Val	Thr	Leu	Tyr	Gly	Ala	Val	Arg	Leu
305					310					315					320
Thr	Val	Thr	Leu	Phe	Phe	Pro	Ser	Ala	Ile	Glu	Arg	Val	Ser	Glu	Ala
				325					330					335	
Ile	Val	Ser	Ile	Arg	Arg	Ile	Gln	Thr	Phe	Leu	Leu	Leu	Asp	Glu	Ile
			340					345					350		
Ser	Gln	Arg	Asn	Arg	Gln	Leu	Pro	Ser	Asp	Gly	Lys	Lys	Met	Val	His
		355					360					365			
Val	Gln	Asp	Phe	Thr	Ala	Phe	Trp	Asp	Lys	Ala	Ser	Glu	Thr	Pro	Thr
	370					375					380				
Leu	Gln	Gly	Leu	Ser	Phe	Thr	Val	Arg	Pro	Gly	Glu	Leu	Leu	Ala	Val
385					390					395					400
Val	Gly	Pro	Val	Gly	Ala	Gly	Lys	Ser	Ser	Leu	Leu	Ser	Ala	Val	Leu
				405					410					415	
Gly	Glu	Leu	Ala	Pro	Ser	His	Gly	Leu	Val	Ser	Val	His	Gly	Arg	Ile
			420					425					430		
Ala	Tyr	Val	Ser	Gln	Gln	Pro	Trp	Val	Phe	Ser	Gly	Thr	Leu	Arg	Ser
		435					440					445			
Asn	Ile	Leu	Phe	Gly	Lys	Lys	Tyr	Glu	Lys	Glu	Arg	Tyr	Glu	Lys	Val
	450					455					460				
Ile	Lys	Ala	Cys	Ala	Leu	Lys	Lys	Asp	Leu	Gln	Leu	Leu	Glu	Asp	Gly
465					470					475					480
Asp	Leu	Thr	Val	Ile	Gly	Asp	Arg	Gly	Thr	Thr	Leu	Ser	Gly	Gly	Gln
				485					490					495	
Lys	Ala	Arg	Val	Asn	Leu	Ala	Arg	Ala	Val	Tyr	Gln	Asp	Ala	Asp	Ile
			500					505					510		
Tyr	Leu	Leu	Asp	Asp	Pro	Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg
		515					520					525			
His	Leu	Phe	Glu	Leu	Cys	Ile	Cys	Gln	Ile	Leu	His	Glu	Lys	Ile	Thr
	530					535					540				
Ile	Leu	Val	Thr	His	Gln	Leu	Gln	Tyr	Leu	Lys	Ala	Ala	Ser	Gln	Ile
545					550					555					560
Leu	Ile	Leu	Lys	Asp	Gly	Lys	Met	Val	Gln	Lys	Gly	Thr	Tyr	Thr	Glu
				565					570					575	
Phe	Leu	Lys	Ser	Gly	Ile	Asp	Phe	Gly	Ser	Leu	Leu	Lys	Lys	Asp	Asn
			580					585					590		
Glu	Glu	Ser	Glu	Gln	Pro	Pro	Val	Pro	Gly	Thr	Pro	Thr	Leu	Arg	Asn
		595					600					605			
Arg	Thr	Phe	Ser	Glu	Ser	Ser	Val	Trp	Ser	Gln	Gln	Ser	Ser	Arg	Pro
	610					615					620				
Ser	Leu	Lys	Asp	Gly	Ala	Leu	Glu	Ser	Gln	Asp	Thr	Glu	Asn	Val	Pro
625				</											

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				740						745				750			
Thr	Leu	His	Asn	Lys	Met	Phe	Glu	Ser	Ile	Leu	Lys	Ala	Pro	Val	Leu		
		755					760					765					
Phe	Phe	Asp	Arg	Asn	Pro	Ile	Gly	Arg	Ile	Leu	Asn	Arg	Phe	Ser	Lys		
		770				775					780						
Asp	Ile	Gly	His	Leu	Asp	Asp	Leu	Leu	Pro	Leu	Thr	Phe	Leu	Asp	Phe		
785					790					795					800		
Ile	Gln	Thr	Leu	Leu	Gln	Val	Val	Gly	Val	Val	Ser	Val	Ala	Val	Ala		
			805					810							815		
Val	Ile	Pro	Trp	Ile	Ala	Ile	Pro	Leu	Val	Pro	Leu	Gly	Ile	Ile	Phe		
			820					825						830			
Ile	Phe	Leu	Arg	Arg	Tyr	Phe	Leu	Glu	Thr	Ser	Arg	Asp	Val	Lys	Arg		
		835					840					845					
Leu	Glu	Ser	Thr	Thr	Arg	Ser	Pro	Val	Phe	Ser	His	Leu	Ser	Ser	Ser		
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Leu	Gln	Gly	Leu	Trp	Thr	Ile	Arg	Ala	Tyr	Lys	Ala	Glu	Glu	Arg	Cys		
865					870					875					880		
Gln	Glu	Leu	Phe	Asp	Ala	His	Gln	Asp	Leu	His	Ser	Glu	Ala	Trp	Phe		
			885					890							895		
Leu	Phe	Leu	Thr	Thr	Ser	Arg	Trp	Phe	Ala	Val	Arg	Leu	Asp	Ala	Ile		
			900					905						910			
Cys	Ala	Met	Phe	Val	Ile	Ile	Val	Ala	Phe	Gly	Ser	Leu	Ile	Leu	Ala		
		915					920					925					
Lys	Thr	Leu	Asp	Ala	Gly	Gln	Val	Gly	Leu	Ala	Leu	Ser	Tyr	Ala	Leu		
		930				935					940						
Thr	Leu	Met	Gly	Met	Phe	Gln	Trp	Cys	Val	Arg	Gln	Ser	Ala	Glu	Val		
945					950					955					960		
Glu	Asn	Met	Met	Ile	Ser	Val	Glu	Arg	Val	Ile	Glu	Tyr	Thr	Asp	Leu		
			965						970						975		
Glu	Lys	Glu	Ala	Pro	Trp	Glu	Tyr	Gln	Lys	Arg	Pro	Pro	Pro	Ala	Trp		
			980					985						990			
Pro	His	Glu	Gly	Val	Ile	Ile	Phe	Asp	Asn	Val	Asn	Phe	Met	Tyr	Ser		
		995					1000					1005					
Pro	Gly	Gly	Pro	Leu	Val	Leu	Lys	His	Leu	Thr	Ala	Leu	Ile	Lys	Ser		
		1010				1015						1020					
Gln	Glu	Lys	Val	Gly	Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys	Ser	Ser		
1025					1030						1035				1040		
Leu	Ile	Ser	Ala	Leu	Phe	Arg	Leu	Ser	Glu	Pro	Glu	Gly	Lys	Ile	Trp		
			1045						1050						1055		
Ile	Asp	Lys	Ile	Leu	Thr	Thr	Glu	Ile	Gly	Leu	His	Asp	Leu	Arg	Lys		
			1060					1065		</							

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				1205					1210					1215			
Val	Leu	Leu	Gln	Asn	Lys	Glu	Ser	Leu	Phe	Tyr	Lys	Met	Val	Gln	Gln		
			1220						1225					1230			
Leu	Gly	Lys	Ala	Glu	Ala	Ala	Ala	Leu	Thr	Glu	Thr	Ala	Lys	Gln	Arg		
		1235						1240					1245				
Trp	Gly	Phe	Thr	Met	Leu	Ala	Arg	Leu	Val	Ser	Asn	Ser					
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<212> PRT
<213> Artificial Sequence
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<223> Made in a lab
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<220>
<223> Made in a lab

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<211> 14
<212> PRT
<213> Homo sapiens
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<211> 15
<212> PRT
<213> Homo sapiens
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<400> 542
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<211> 12
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194

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<210> 546
 <211> 29
 <212> PRT
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 Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg Met
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 <212> PRT
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 Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys
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 Cys Arg Met Pro Arg Thr Leu Arg Arg Leu
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195

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 Gln Ala

<210> 550
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 <212> PRT
 <213> Homo sapiens
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 5 10

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 <223> Made in a lab

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 <212> DNA
 <213> Homo sapiens

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 tcataccagt ccacggacta ttatgaacca caccacacag gaggagggtga gcactaggca 180
 agccaaggaa gcttcacctg tacttacagc cacacgccat ggctcatatt acagcctgaa 240
 ctctgcctcc actcagatca gtgataacat tagaaactca ttggagcacg aacctgttg 300
 tgaactgcct atccgaagga tctaggttgt gtgcttcgta tgagaatcta atgccagatg 360
 atctatcatt gtctcacttt gccccagat aagaccatct agttgcagaa aaataagctc 420
 agagcttcca ctgattctac attatggata tgtgcccgcg aagcaagcac aaagccctac 480
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196

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aaagtctctga gataaagaat cctgcaccca ctggtacttc taacttgtct tgttttttgt 1560
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ctatgacatc tcacctgata tgtaagatgt aactgttata attattttta acctcaattt 1680
agcattaact agccttttta tgtaaacact tacacattat gaygactaga aacagcatat 1740
tctctggcog tctgtccaga tagatcttga gaagatacat caatgttttg ctcaagtaga 1800
aggctgacta tacttgccga tccacaacat acagcaagta tgagagcagt tctaaaaatga 1860
cagagatagg aacagtaata aagttattkt aaaagctaata ttgatatact ttaccaattt 1920
aacatcttgc ctgtccgtgc agaatcaaac atttacctgc actaaaagac ataagcatct 1980
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ttgatggaca agaaacaata ttagggccac ttatctgaaa tgaacaaaga ttaagttaa 2160
gatttcatca cagcttccct agactgatat gctgtaatag aaaatcagct agggggtaaa 2220
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ccacatatat ctttcttatg cgcagcaaac tttgaaggat atattctcct acttttcata 2400
tatgacaaca tatttggtgg taaataacgt tccaagggtc acacacctag caagtaagaa 2460
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<210> 553

<211> 58

<212> PRT

<213> Homo sapiens

<400> 553

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Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys
                    5                      10                      15
Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly
                    20                      25                      30
Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr
                    35                      40                      45
Glu Pro His His Thr Gly Gly Gly Glu His
                    50                      55

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<210> 554

<211> 59

<212> PRT

<213> Homo sapiens

<400> 554

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Leu Gln Lys Asn Lys Leu Arg Ala Ser Thr Asp Ser Thr Leu Trp Ile
                    5                      10                      15
Cys Ala Ala Glu Ala Ser Thr Lys Pro Tyr Phe Tyr Thr Cys Leu Val
                    20                      25                      30
Met Leu His Gly Gln Gly Leu Ala Leu Leu Ser Pro Thr Asn Leu Pro
                    35                      40                      45
Glu Ile Leu Arg Phe Leu Phe Asn Gly Phe Leu
                    50                      55

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197

<210> 555
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 555
 Leu Gly Arg Phe Ser Leu Ser Cys Lys Ser Gly His Ser Arg Gly Gln
 5 10 15
 Pro Gln Leu Gly Ala Thr Ala Gln Gly Lys Val His Met Gly Leu Ser
 20 25 30
 Thr Ala Gln Gly Ser Ile Gln Asp Ile Lys Val Pro His Ser Ile Asp
 35 40 45
 Leu Val Ala Lys Lys Lys Lys Gln Thr Leu Ile Ser Phe Cys His Pro
 50 55 60
 Ser Asp Pro Leu Glu Leu Leu
 65 70

<210> 556
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 556
 Asn His Pro Glu Gln Gly Ser Ser Thr Pro Arg Pro Gln Thr His Thr
 5 10 15
 Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr
 20 25 30
 Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly
 35 40 45
 Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile
 50 55 60
 Arg Asn Ser Leu Glu His Glu Pro Cys Cys Glu Leu Pro Ile Arg Arg
 65 70 75 80
 Ile

<210> 557
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 557
 Ser Leu Ser Ala Thr Pro Leu Thr Leu Trp Asn Ser Ser Asp Pro Leu
 5 10 15
 Glu Gln Ala Tyr Leu Ile Ser Ala Arg Glu Lys Thr Asn Asn Gly Leu
 20 25 30
 Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys
 35 40 45
 Gly Phe His Ile Arg Phe
 50

<210> 558
 <211> 77
 <212> PRT
 <213> Homo sapiens

198

<220>
 <221> VARIANT
 <222> (1)...(77)
 <223> Xaa = Any amino acid

<400> 558
 Asn Asp Arg Asp Arg Asn Ser Asn Lys Val Ile Xaa Lys Ala Asn Leu
 5 10 15
 Ile Tyr Phe Thr Asn Leu Thr Ser Cys Leu Ser Val Gln Asn Gln Thr
 20 25 30
 Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His
 35 40 45
 Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys
 50 55 60
 Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr
 65 70 75

<210> 559
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 559
 Thr Leu Pro Pro Leu Arg Ser Val Ile Thr Leu Glu Thr His Trp Ser
 5 10 15
 Thr Asn Pro Val Val Asn Cys Leu Ser Glu Gly Ser Arg Leu Cys Ala
 20 25 30
 Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala
 35 40 45
 Pro Arg
 50

<210> 560
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 560
 Ile Gly Ser Leu Lys Gly Pro Thr Thr Ala Gly Ser His Cys Ser Gly
 5 10 15
 Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr
 20 25 30
 Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn
 35 40 45
 Thr Asp Leu Phe Leu Pro Pro Leu
 50 55

<210> 561
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT

199

<222> (1)...(57)

<223> Xaa = Any amino acid

<400> 561

Val	Leu	His	Leu	Asp	Gln	Met	Asn	Asn	Val	Gly	Ile	Xaa	Met	Asp	Lys
				5					10					15	
Gly	Leu	Lys	Ser	Pro	Glu	Ile	Lys	Asn	Pro	Ala	Pro	Thr	Gly	Thr	Ser
			20					25					30		
Asn	Leu	Ser	Cys	Phe	Leu	Ser	Xaa	Phe	Trp	Leu	Met	Gln	Gly	Thr	Asn
		35					40					45			
Ser	Leu	Pro	Arg	Glu	Asn	Tyr	Leu	Asn							
	50					55									

<210> 562

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(59)

<223> Xaa = Any amino acid

<400> 562

Asp	Leu	Tyr	Pro	Xaa	Arg	Ser	Gln	His	Cys	Ser	Phe	Asp	Pro	Ser	Val
				5					10					15	
Ala	Pro	Met	His	Gly	Ile	Lys	Asn	Ser	Ile	Thr	Ser	Leu	Ile	Phe	Leu
			20					25					30		
Ile	Ser	Tyr	Leu	Xaa	Leu	Glu	Met	Ser	Ser	Leu	Ser	Glu	Ser	Leu	Val
		35					40					45			
Leu	Ser	Ser	Gly	Asp	Tyr	Val	Leu	Asp	Thr	Pro					
	50					55									

<210> 563

<211> 79

<212> PRT

<213> Homo sapiens

<400> 563

Cys	Phe	Leu	Phe	Pro	Tyr	Leu	Trp	Leu	Tyr	Ala	Gln	Pro	Leu	Phe	Pro
				5					10					15	
Lys	Gln	Gln	Pro	Pro	Ala	Leu	Ala	Pro	Gly	His	Pro	Asp	Phe	Ile	His
			20					25					30		
Thr	Gln	Asn	Glu	Gln	Ile	Asp	Pro	Ser	Pro	His	Ile	Gln	Asn	Leu	Met
		35					40					45			
Trp	Asn	Pro	His	Leu	Ser	Gln	Glu	Leu	Ala	Glu	Thr	Phe	Met	Val	Arg
	50					55				60					
Asp	Pro	Leu	Arg	Pro	Leu	Leu	Val	Phe	Ser	Leu	Ala	Asp	Ile	Arg	
	65				70					75					

<210> 564

<211> 64

<212> PRT

<213> Homo sapiens

<400> 564

200

Ala Cys Ser Lys Gly Ser Glu Glu Phe Gln Arg Val Arg Gly Val Ala
 5 10 15
 Glu Arg Asp Gln Cys Leu Phe Leu Leu Leu Cys Tyr Gln Ile Tyr Thr
 20 25 30
 Val Arg His Leu Tyr Ile Leu Tyr Arg Thr Leu Gly Ser Arg Lys Ser
 35 40 45
 His Met Asn Leu Pro Leu Ser Ser Gly Ser Gln Leu Trp Leu Ala Pro
 50 55 60

<210> 565
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)...(57)
 <223> Xaa = Any amino acid

<400> 565
 Leu Tyr Tyr Cys Ser Tyr Leu Cys His Phe Arg Thr Ala Leu Ile Leu
 5 10 15
 Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln
 20 25 30
 Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu
 35 40 45
 Tyr Ala Val Ser Ser Xaa His Asn Val
 50 55

<210> 566
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 566
 Ile Leu Leu Glu Phe Phe Arg Asn Gln Arg Gly Ser Leu Asn Pro Arg
 5 10 15
 Lys Thr Val Pro Phe Ile Lys Ser Glu Gly Gly Glu Lys Lys Gly His
 20 25 30
 Cys Asn His Ser Val Val Ser Ile Asp Ser Ala Ala Ala Leu Leu Pro
 35 40 45
 Leu Lys Leu Val Leu Leu Pro
 50 55

<210> 567
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 567
 Tyr Ser Asp Phe Asp Val Phe Cys Ser His Thr Tyr Gly Tyr Met Leu
 5 10 15
 Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile
 20 25 30
 Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile

201

35 40 45
 Phe Arg Thr
 50
 <210> 568
 <211> 75
 <212> PRT
 <213> Homo sapiens
 <400> 568
 Lys Val Gly Glu Tyr Ile Leu Gln Ser Leu Leu Arg Ile Arg Lys Ile
 5 10 15
 Tyr Val Ala Phe Asn Ser Val Pro Ser Thr Cys Leu Leu Ala Ser Leu
 20 25 30
 Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr
 35 40 45
 Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp
 50 55 60
 Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu
 65 70 75

<210> 569
 <211> 4809
 <212> DNA
 <213> Homo sapiens

<400> 569
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 ggacagatgt ccgataatcc tttttacatt ttggcatcct tgggtagctc gtcttgtagg 180
 aatggacttg cttcaaagtg gaggcaggca gatccttcag acgggtatat ggagccctgt 240
 tttcagttgc ttttctaatt ctctcttata gtttacctca aaatcttcct gaggtctcgc 300
 ttctttttta aatccttgct tactttgcag catcactctg aactcccat tgattcctca 360
 gcacctactg actacacggt taggagtgc agggtagaat tcatgtttta ttcattcttg 420
 ggtctgtagc acccagcaaa gtgctcagta aatgcgcagt aattgatttg acctctgaac 480
 aaatacacac tgtactaaga atctacacac cgaaagacaa aaacaagaca aatttgagtg 540
 ctacaggtgt cagccttggt atcacacatg tgcctgtgta ttctcttagg tggttaccag 600
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 cgctgctctc acataagggt tccaattaaa attgccagga ataaattccc cgggactttg 720
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 ataagcttgc caataaagag tctctgtgtg tatggaactg gcttatttca tacacaatct 1140
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 gccagaacaa ctaggccttt tactccacca tccccttgtt ttcttttgtt tcgttggtta 1680
 aaatcaatcc tttctaccatc catgcatagc aatttctaaa aactgaattt caagagcagt 1740
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202

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attttttatt attgaaatta acacattgoc tactttttta aaattggaaa aagaaaaaaa 4800
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<210> 570

<211> 951

<212> DNA

<213> Homo sapiens

<400> 570

203

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aaaataattgg aatttttattc atcttaaaaa ttggacccgg ccttatttac catctttaat 120
ccatttttagt actatgggtg agtacatgga attgaagtct ggcttaaatac ttcagaaagt 180
tatatatcta ttttattttta tttttttgag acagagtctc gctgtgtcac ccagggtgga 240
gtgcgggtgcc acaatcttgg ctcaactgcaa cctctgagtc ccagggtcaa gcgatactca 300
tgccctcgcc tcctgagtag ctgggactac aggcgtgcac caccacatct ggctaattctt 360
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ggtaattttat aaagaaaaaga ggtttaatga ctcacagttc cgcatggctg gagaggctc 540
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cacaggttca agcaattctc atgcctcagc ctcccgcata gctgggacca caggtatgca 780
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ggctgggtcta aaactcctgg gctccagcaa tccgcctgcc ttggcctccc aaagtgtg 900
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<210> 571

<211> 819

<212> DNA

<213> Homo sapiens

<400> 571

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catgttttct caaatctctt tgtgaattcc agagagggcc aggcacggtg gctcacatct 480
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accagcctgg ccaacatggt gaaatccgt ttcactaaaa atacaaaaat taccaggca 600
tggtggcggg cgctgtaat cccaggtaact cgggaggctg agggaggaga atcgcttgaa 660
cctgggaggg tgagggagga gaatcgcttg aaccgggag gcagaggttg cagtgaaccg 720
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aaataaacia acaaacaaac aaaacagaga gattttgct 819

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<210> 572

<211> 203

<212> DNA

<213> Homo sapiens

<400> 572

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cgccagtgtg ctggaattcg cccttagctc ggatccacta gtccagtgtg gtggaattcc 120
attgtgttgg gcccaacaca atggagccac cacatccagc ctgccacata ctttttaaact 180
atcagggtctc atgagaactc atg
203

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<210> 573

<211> 132

<212> PRT

<213> Homo sapiens

<400> 573

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Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg
          5              10              15
Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg

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204

[illegible]

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<210> 574
<211> 62
<212> PRT
<213> Homo sapiens
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<400> 574																
Met	Thr	His	Ser	Ser	Ala	Trp	Leu	Glu	Arg	Pro	Gln	Glu	Thr	Tyr	Asn	
				5					10					15		
His	Gly	Gly	Arg	Arg	Arg	Gly	Ser	Lys	Ala	Arg	Leu	Thr	Trp	Trp	Gln	
			20					25					30			
Glu	Arg	Thr	Ser	Glu	Gly	Gly	Asp	Cys	His	Lys	Leu	Phe	Phe	Phe	Glu	
		35					40					45				
Thr	Arg	Val	Trp	Pro	Cys	Cys	Pro	Gly	Trp	Ser	Ala	Val	Ala			
	50					55					60					

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<210> 575
<211> 76
<212> PRT
<213> Homo sapiens
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<400> 575															
Met	Val	Lys	Ser	Arg	Phe	Thr	Lys	Asn	Thr	Lys	Ile	Thr	Gln	Ala	Trp
				5					10					15	
Trp	Arg	Ala	Pro	Val	Ile	Pro	Gly	Thr	Arg	Glu	Ala	Glu	Gly	Gly	Glu
			20					25					30		
Ser	Leu	Glu	Pro	Gly	Arg	Leu	Arg	Glu	Glu	Asn	Arg	Leu	Asn	Pro	Gly
		35					40					45			
Gly	Arg	Gly	Cys	Ser	Glu	Pro	Arg	Ser	Cys	Cys	Cys	Thr	Pro	Ala	Trp
	50					55					60				
Ser	Thr	Glu	Gln	Asp	Ser	Ala	Ser	Lys	Thr	Asn	Lys				
65					70					75					

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<210> 576
<211> 68
<212> PRT
<213> Homo sapiens
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<220>
<221> VARIANT

205

<222> (1)...(68)

<223> Xaa = Any Amino Acid

<400> 576

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              5              10              15
Thr Val Cys Tyr Leu Ala Ser Ser Ser Ala Ser Arg Glu Thr Ala Thr
              20              25              30
Arg Gln Ala Pro Gly Asn Trp Lys Met Xaa Ser Lys Cys His Ala Gln
              35              40              45
Leu Leu Phe Thr Phe Tyr Leu Asn His Phe Tyr Gln Ile Arg Leu Asn
              50              55              60
Pro Gly Tyr Ser
65

```

<210> 577

<211> 57

<212> PRT

<213> Homo sapiens

<400> 577

```

Met Tyr Leu Glu Asn Ser Phe Tyr Cys Gln Met Ile Leu Leu Lys Arg
              5              10              15
Cys Arg Leu Ser Lys Ile Ser Thr Gln Arg Val Val Pro Asp Gly Pro
              20              25              30
Pro Ala Pro Val Pro Gly Ser Phe Pro Met Phe Pro Arg Phe Gly Phe
              35              40              45
Arg Leu Ala Pro Pro Ala Asp Thr Pro
              50              55

```

<210> 578

<211> 51

<212> PRT

<213> Homo sapiens

<400> 578

```

Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu Leu Tyr Ile Arg His
              5              10              15
His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr
              20              25              30
Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His Ile Ala Lys Val Tyr
              35              40              45
Gln Pro His
50

```

<210> 579

<211> 56

<212> PRT

<213> Homo sapiens

<400> 579

```

Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu
              5              10              15
Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr
              20              25              30
Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His
              35              40              45
Ile Ala Lys Val Tyr Gln Pro His

```

206

50

55

<210> 580
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 580
 Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser
 5 10 15
 Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys
 20 25 30
 Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser
 35 40 45
 His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser
 50 55 60
 Phe Ile His
 65

<210> 581
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 581
 Met Leu Glu Val Lys Phe Glu Val Ser Leu Arg Pro Thr Gly Asn Glu
 5 10 15
 Thr Ala Gly Gln Thr His Gly Thr Gln Asp Lys Gly Ser Lys Asp Ser
 20 25 30
 Thr Ala Ala Asp Ile Leu Cys Asp Ser Leu Glu Ser Ser Arg Pro Ala
 35 40 45
 Ala His Ile Leu Glu Gly Lys Met Gly Thr Met Leu Ser Ala Thr Leu
 50 55 60
 Gly Pro Ser Trp Val Thr Cys Ile Leu His Leu Cys Ser
 65 70 75

<210> 582
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 582
 Met Leu Phe Leu Gln Thr Ile Asp Thr Lys Cys Thr Gly Ile Glu Ile
 5 10 15
 Asn Arg Asn Trp Ser Lys Val Trp His Thr His Ser His Val Asp Val
 20 25 30
 Lys Leu Cys Leu Glu Phe Leu Cys Gly Val Trp Phe Gly Leu Gly Phe
 35 40 45
 Leu Gly Val
 50

<210> 583
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 583
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg

207

```

          5          10          15
Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
          20          25          30
Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
          35          40          45
Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
          50          55          60

```

<210> 584
 <211> 76
 <212> PRT
 <213> Homo sapiens

```

<400> 584
Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
          5          10          15
Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
          20          25          30
Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
          35          40          45
Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
          50          55          60
Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
          65          70          75

```

<210> 585
 <211> 50
 <212> PRT
 <213> Homo sapiens

```

<400> 585
Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu
          5          10          15
Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp
          20          25          30
Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu
          35          40          45
Leu Phe
          50

```

<210> 586
 <211> 60
 <212> PRT
 <213> Homo sapiens

```

<400> 586
Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
          5          10          15
Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
          20          25          30
Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
          35          40          45
Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
          50          55          60

```

<210> 587
 <211> 1408
 <212> DNA

208

<213> Homo sapiens

<400> 587

```

ctggacactt tgcgagggct tttgctggct gctgctgctg cccgtcatgc tactcatcgt 60
agcccgcccg gtgaagctcg ctgctttccc tacctcctta agtgactgcc aaacgcccac 120
cggctggaat tgctctgggt atgatgacag agaaaatgat ctcttcctct gtgacaccaa 180
cacctgtaaa tttgatgggg aatgtttaag aattggagac actgtgactt gcgtctgtca 240
gttcaagtgc aacaatgact atgtgcctgt gtgtggctcc aatggggaga gctaccagaa 300
tgagtgttac ctgacagagg ctgcatgcaa acagcagagt gagatacttg tgggtgtcaga 360
aggatcatgt gccacagatg caggatcagg atctggagat ggagtccatg aaggctctgg 420
agaaactagt caaaaggaga catccacctg tgatatttgc cagtttggtg cagaatgtga 480
cgaagatgcc gaggatgtct ggtgtgtgtg taatattgac tgttctcaa ccaacttcaa 540
tcccctctgc gcttctgatg ggaaatctta tgataatgca tgccaaatca aagaagcatc 600
gtgtcagaaa caggagaaaa ttgaagtcat gtctttgggt cgatgtcaag ataacacaac 660
tacaactact aagtctgaag atgggcatta tgcaagaaca gattatgcag agaattgctaa 720
caaattagaa gaaagtgccg gagaacacca cataccttgt ccggaacatt acaatggctt 780
ctgcatgcat gggaagtgtg agcattctat caatatgcag gagccatctt gcagggtgtga 840
tgctggttat actggacaac actgtgaaaa aaaggactac agtgttctat acgttgttcc 900
cggtcctgta cgatttcagt atgtcttaat cgcagctgtg attggaacaa ttcagattgc 960
tgtcatctgt gtgggtgtcc tctgcatcac aaggaaatgc ccagaagca acagaattca 1020
cagacagaag caaaatacag ggcactacag ttcagacaat acaacaagag cgtccacgag 1080
gttaatctaa agggagcatg ttccacagtg gctggactac cgagagcttg gactacacaa 1140
tacagtatta tagacaaaag aataagacaa gagatctaca catgttgctt tgcatattgtg 1200
gtaatctaca ccaatgaaaa catgtactac agctatatatt gattatgtat ggatatattt 1260
gaaatagtat acattgtctt gatgtttttt ctgtaatgta aataaactat ttatatcaca 1320
caatawagtt ttttctttcc catgtatttg ttatatataa taaatactca gtgatgagaa 1380
aaaaaaaaa aaaaaaaaaa rwmgaccc 1408

```

<210> 588

<211> 81

<212> PRT

<213> Homo sapiens

<400> 588

```

Met Pro Gln Lys Gln Asn Ser Gln Thr Glu Ala Lys Tyr Arg Ala
                    5              10              15
Leu Gln Phe Arg Gln Tyr Asn Lys Ser Val His Glu Val Asn Leu Lys
                    20              25              30
Gly Ala Cys Phe Thr Val Ala Gly Leu Pro Arg Ala Trp Thr Thr Gln
                    35              40              45
Tyr Ser Ile Ile Asp Lys Arg Ile Arg Gln Glu Ile Tyr Thr Cys Cys
                    50              55              60
Leu Ala Phe Val Val Ile Tyr Thr Asn Glu Asn Met Tyr Tyr Ser Tyr
                    65              70              75              80
Ile

```

<210> 589

<211> 157

<212> PRT

<213> Homo sapiens

<400> 589

```

Met Thr Met Cys Leu Cys Val Ala Pro Met Gly Arg Ala Thr Arg Met
                    5              10              15
Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu
                    20              25              30
Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu

```

209

		35					40					45			
Met	Glu	Ser	Met	Lys	Ala	Leu	Glu	Lys	Leu	Val	Lys	Arg	Arg	His	Pro
	50					55					60				
Pro	Val	Ile	Phe	Ala	Ser	Leu	Val	Gln	Asn	Val	Thr	Lys	Met	Pro	Arg
65					70					75					80
Met	Ser	Gly	Val	Cys	Val	Ile	Leu	Thr	Val	Leu	Lys	Pro	Thr	Ser	Ile
				85					90					95	
Pro	Ser	Ala	Leu	Leu	Met	Gly	Asn	Leu	Met	Ile	Met	His	Ala	Lys	Ser
			100					105					110		
Lys	Lys	His	Arg	Val	Arg	Asn	Arg	Arg	Lys	Leu	Lys	Ser	Cys	Leu	Trp
		115					120					125			
Val	Asp	Val	Lys	Ile	Thr	Gln	Leu	Gln	Leu	Leu	Ser	Leu	Lys	Met	Gly
	130					135					140				
Ile	Met	Gln	Glu	Gln	Ile	Met	Gln	Arg	Met	Leu	Thr	Asn			
145					150					155					

```
<210> 590
<211> 347
<212> PRT
<213> Homo sapiens
```

<400>	590														
Met	Leu	Leu	Ile	Val	Ala	Arg	Pro	Val	Lys	Leu	Ala	Ala	Phe	Pro	Thr
				5					10					15	
Ser	Leu	Ser	Asp	Cys	Gln	Thr	Pro	Thr	Gly	Trp	Asn	Cys	Ser	Gly	Tyr
			20					25					30		
Asp	Asp	Arg	Glu	Asn	Asp	Leu	Phe	Leu	Cys	Asp	Thr	Asn	Thr	Cys	Lys
		35					40					45			
Phe	Asp	Gly	Glu	Cys	Leu	Arg	Ile	Gly	Asp	Thr	Val	Thr	Cys	Val	Cys
	50					55					60				
Gln	Phe	Lys	Cys	Asn	Asn	Asp	Tyr	Val	Pro	Val	Cys	Gly	Ser	Asn	Gly
65					70					75					80
Glu	Ser	Tyr	Gln	Asn	Glu	Cys	Tyr	Leu	Arg	Gln	Ala	Ala	Cys	Lys	Gln
				85					90					95	
Gln	Ser	Glu	Ile	Leu	Val	Val	Ser	Glu	Gly	Ser	Cys	Ala	Thr	Asp	Ala
			100					105					110		
Gly	Ser	Gly	Ser	Gly	Asp	Gly	Val	His	Glu	Gly	Ser	Gly	Glu	Thr	Ser
		115					120					125			
Gln	Lys	Glu	Thr	Ser	Thr	Cys	Asp	Ile	Cys	Gln	Phe	Gly	Ala	Glu	Cys
	130					135					140				
Asp	Glu	Asp	Ala	Glu	Asp	Val	Trp	Cys	Val	Cys	Asn	Ile	Asp	Cys	Ser
145					150					155				160	
Gln	Thr	Asn	Phe	Asn	Pro	Leu	Cys	Ala	Ser	Asp	Gly	Lys	Ser	Tyr	Asp
				165					170					175	
Asn	Ala	Cys	Gln	Ile	Lys	Glu	Ala	Ser	Cys	Gln	Lys	Gln	Glu	Lys	Ile
			180					185					190		
Glu	Val	Met	Ser	Leu	Gly	Arg	Cys	Gln	Asp	Asn	Thr	Thr	Thr	Thr	Thr
	195						200					205			
Lys	Ser	Glu	Asp	Gly	His	Tyr	Ala	Arg	Thr	Asp	Tyr	Ala	Glu	Asn	Ala
	210					215					220				
Asn	Lys	Leu	Glu	Glu	Ser	Ala	Arg	Glu	His	His	Ile	Pro	Cys	Pro	Glu
225					230					235					240
His	Tyr	Asn	Gly	Phe	Cys	Met	His	Gly	Lys	Cys	Glu	His	Ser	Ile	Asn
				245					250					255	
Met	Gln	Glu	Pro	Ser	Cys	Arg	Cys	Asp	Ala	Gly	Tyr	Thr	Gly	Gln	His
			260					265					270		
Cys	Glu	Lys	Lys	Asp	Tyr	Ser	Val	Leu	Tyr	Val	Val	Pro	Gly	Pro	Val

210

```

      275              280              285
Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile Gln Ile
      290              295              300
Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg
      305              310              315              320
Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser
      325              330              335
Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
      340              345

```

<210> 591

<211> 565

<212> DNA

<213> Homo sapien

<400> 591

```

actaaagcaa atgaacaagc tgacttgcta gtatcatctg cattcattga agcacaagaa      60
cttcatgcct tgactcatgt aaatgcaata ggattaaaaa ataaatttga tatcacatgg      120
aaacagacaa aaaatattgt acaacattgc acccagtgtc agattctaca cctggccact      180
caggaagcaa gagttaatcc cagaggtcta tgtcctaata tgttatggca aatggatgtc      240
atgcacgtac cttcatttgg aaaattgtca tttgtccatg tgacagttga tacttattca      300
catttcatat gggcaacctg ccagacagga gaaagtactt cccatgttaa aagacattta      360
ttatcttggt ttcctgtcat gggagttcca gaaaaagtta aaacagacaa tgggccaggt      420
tactgtagta aagcatttca aaaattctta aatcagtggg aaattacaca tacaatagga      480
attctctata attcccaagg acaggccata attgaaggaa ctaatagaac actcaaagct      540
caattggtta aacaaaaaaaa aaaaaa                                565

```

<210> 592

<211> 188

<212> PRT

<213> Homo sapien

<400> 592

```

Thr Lys Ala Asn Glu Gln Ala Asp Leu Leu Val Ser Ser Ala Phe Ile
  1              5              10              15
Glu Ala Gln Glu Leu His Ala Leu Thr His Val Asn Ala Ile Gly Leu
      20              25              30
Lys Asn Lys Phe Asp Ile Thr Trp Lys Gln Thr Lys Asn Ile Val Gln
      35              40              45
His Cys Thr Gln Cys Gln Ile Leu His Leu Ala Thr Gln Glu Ala Arg
      50              55              60
Val Asn Pro Arg Gly Leu Cys Pro Asn Val Leu Trp Gln Met Asp Val
      65              70              75              80
Met His Val Pro Ser Phe Gly Lys Leu Ser Phe Val His Val Thr Val
      85              90              95
Asp Thr Tyr Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser
      100             105             110
Thr Ser His Val Lys Arg His Leu Leu Ser Cys Phe Pro Val Met Gly
      115             120             125
Val Pro Glu Lys Val Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys
      130             135             140
Ala Phe Gln Lys Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly
      145             150             155             160
Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Gly Thr Asn Arg
      165             170             175
Thr Leu Lys Ala Gln Leu Val Lys Gln Lys Lys Lys
      180             185

```

211

<210> 593
 <211> 271
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(271)
 <223> n = A,T,C or G

<400> 593
 actttatggt cnagtgcana aancncctg gattgccacc ntactctcag ggctgtgant 60
 tgtgcnccca nagcaacctg ggcacgcggg gacagggggg ccnacaattg agggagcggg 120
 gtccctagct ggggtctata catgncnggg naagggcngc tgagtnccat nagcaaagga 180
 nctagnatnt gcgggggtgc ggctggggc taccctttna agcatccntn gatccactcc 240
 angaancng gggtagncag gtttnccaac a 271

<210> 594
 <211> 376
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(376)
 <223> n = A,T,C or G

<400> 594
 cctttggggg nggggggaac ctttaccatt gtnccccttt atttcatttg gttnggggttc 60
 ggcgcctcnn gggccaacaa agttatcgtn nttgaagaga anattttttt ggnttngncc 120
 cgattaagcg ncaaatgtgt agcaaaaangc cgtgccactt gtggcgtagc tncgtcgggt 180
 cgattcgacg acaaggcgtn gcgcgntanc gttagtctcn aatngaccn gtggcatgag 240
 cccacgangg nttcgtgtcg tcacatggnc tctagacata acgncncnccn ttttttncag 300
 agggggntgc cgcccttagg gaggnagggg tggggacact agccaancca nantctnacc 360
 ccattgaaga aaagg 376

<210> 595
 <211> 242
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(242)
 <223> n = A,T,C or G

<400> 595
 agnctgctgn tcgtncctn tatgtggctt catnntgagg acaanagtng cactgaggct 60
 tgnnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tgnaangggg 120
 atgccangag cangtgcacc agtcccaact angagnccn ggcatgntac atcttcttcc 180
 acccctnaaa ntttgngcta caangnccat ttttcttttt ctcttaaggg ncnctggct 240
 tc 242

<210> 596
 <211> 535
 <212> DNA
 <213> Homo sapien

212

```

<220>
<221> misc_feature
<222> (1)...(535)
<223> n = A,T,C or G

<400> 596
accagttgga tactgctaaa nagatattta tgcagcctca tatgttaagt cgtatatttt      60
gaaagctttt taaatttttt ctttaagaag attttagatg cttatcactg agtaccagag      120
ggatgtaggc tgatgccctt atcaacaaag tcagggactg tggcacacaa ggattgacta      180
ctgcagacac ggccacaatg ctacctctag agggcctgaa tccccctgcc ctctctgggtg      240
gggagaaggg ctggcagagc cattagcatg ggctccggcc aatcctggcc actttgacac      300
tcctggtgct gacccagggt cctggaggaa gggatgaggt gggcagtaga gatgctcagg      360
gcagtggccc ctttccatcc acactggaac tatttcagta ttttaccacc aattcagcca      420
ttcccttggt cgctggctga acatcagccc tgctccaggt ctcagtttcc cctttgtaaa      480
gggaaagctc tggattcagg gagtgatgaa gaggtcatca tggctcttgag aattc      535

<210> 597
<211> 257
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(257)
<223> n = A,T,C or G

<400> 597
tttcnatacc caaaantacc ccatattang accanacatt tgtctnggaa aaattaccat      60
tntntaacnt ttgggccacc tgagannaaa tgggtgtaat ncatgataag atggancagn      120
attnctctta agatnngatn agaccccggt tttcacggaa catatccaag naccacaatag      180
gnaacaagcc acgggnggag tcacaaacat atattcttta ctctcataat ccgtnnccaca      240
naactnttgn acttgac      257

<210> 598
<211> 222
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(222)
<223> n = A,T,C or G

<400> 598
nntggntacc gtcnaaactt nncttggtac ccgagctcgg atccactagt ccagtgtgggt      60
ggaattccat tgtgttgggc tataagctgt aatagtggag ncgtgctngg ttcattgcan      120
nagnccctcc gcanncacnc ttggnacaac ctgtgagnag gcnataaatt attcacataa      180
tcactactgc atgaanctga ctcaaacgca tccacntaca cc      222

<210> 599
<211> 238
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(238)

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213

<223> n = A,T,C or G

<400> 599

gcatgacatc	ancgatgtnt	ttggnnacct	ganattngct	aaaactngng	natgccgggn	60
atgnaggttt	ggtantgatc	tatgcactca	catctcatgg	ggacgtttca	tgtggagtgn	120
tcgacaangt	tgctgnancn	gagaagtgat	gatctcagtt	gaaaggggtca	tgtgaataca	180
cnttacactt	gaaaaagaag	cacattggga	atatcacgaa	acgnccacca	acatcctg	238

<210> 600

<211> 232

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(232)

<223> n = A,T,C or G

<400> 600

cgaactat	agactaccta	ggaaaattat	tttagtatca	gaagaatato	aggggtgtag	60
tactcatcag	agctaaatga	gagcgcttta	aaaatgttag	tttgtcttcc	gccatttcta	120
cagaaagctg	caatttcagg	ttttcaacct	aataggtgat	atttaanaaa	aaaaaaaagc	180
aatcgcaaat	agccccactg	cttttacaaa	tcattttttc	cccaacacaa	tg	232

<210> 601

<211> 547

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(547)

<223> n = A,T,C or G

<400> 601

cattgtgttg	gggaaaaaat	gatttgtata	agcagtgggg	ctatttgoga	ttgctttttt	60
tttttcttaa	atatcaccta	ttaggttgaa	aacctgaaat	tgcagctttc	tgtagaaatg	120
gcggaagaca	aactaacatt	tttaaagcgc	tctcatttag	ctctgatgag	tactacaccc	180
ctnatattct	tctgatacta	aaataatttt	cctagtgtag	tctaaacttt	tttaaaaaga	240
catgtaatcc	gcggagttag	taactcaaaa	cgagtgcata	tnggaagtat	cgcagccggt	300
nctggatnaa	attcccagct	tgctngcttg	ctnagccggg	gggcggtnaa	aaaaacatct	360
gcagcccnng	ggnaaaaacc	ttcgcatgtg	tcttacgtgt	ttacgttatt	ttatttccct	420
nnagcaaggc	nggganttg	ggactcgaaa	tggtacagtt	gggctgggga	tcgcccttgt	480
tacataaaaag	ncgtccagaa	gagggacggt	tacaggcnng	ganctccaaa	ggtcagtcct	540
tgccatt						547

<210> 602

<211> 826

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(826)

<223> n = A,T,C or G

<400> 602

cgggggggnt	tacgtctctc	tggaagcttt	tattgtacca	gggcgatccc	agcccaactg	60
------------	------------	------------	------------	------------	------------	----

214

taccattoga	gtccctactc	ctgccttgct	ctagggaaat	aaaataacgt	aaacacgtaa	120
gaacaatgcg	aaagcgtttt	cttccctagg	ctgcagattg	tcttcttcac	cgccccgtgt	180
tagctagcta	gctagctggg	aatttaaatcc	agaaacggct	tgcgatacct	cctagatgca	240
ctcgttttga	gttacaaact	ccgcggatta	catgtctttt	taaaaaagtt	tagactacac	300
tagggaaaaat	tatttttagta	tcagaagaat	atcaggggggt	gtagtactca	tcagagctna	360
atgagagcgc	tttaaaaaatg	ttagttttgtc	ttccgccatt	tctacagaaa	gctgcaattt	420
caggttttca	ncctaataagg	tgatatntaa	gaaaaaaaaa	acaatcgcan	atagcccact	480
gctttttacaa	atcatttttct	tcttctagggt	atagcctgtc	aggtggccta	atgtattttt	540
gacatctcta	ggaatttttaa	tagaccagaa	atgggtgccca	gagatatgcc	tgactaatac	600
ttaagtgggg	atztatgtat	ttctcaanca	agtgattaaa	gcaaaactag	gcacgaatga	660
aatcaagatc	tttaggccag	aaatcatgaa	nanttttana	attattttan	gaatctgtgg	720
cttctcttct	taaaatngaa	aaaaaaattg	tttaaacccta	naaggtctga	atacccaagc	780
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<210> 603
 <211> 817
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(817)
 <223> n = A,T,C or G

<400> 603						
nnangacttt	tgtggtnntta	tacaattntt	ttttctattt	ctatgaagag	aaagccacag	60
agtcctaaaa	taattctaaa	actcatcatg	actttcttgc	ctaaaagatc	ttgatttcaa	120
tcgtgcctag	ttttgcttta	atcacttgct	tgagaaatac	ataaatcccc	acttaagatt	180
agtgcaggca	tatctctggc	acccatttct	ggttctatta	aaattcctag	agatgtcaaa	240
aattacatta	ggccacctga	caggctatac	ctagaagaga	aaaaatgatt	tgtaaaagca	300
gtggggctat	ttgcgattgc	tttttttttt	tcttaaatat	cacctattag	gttgaaaacc	360
tgaaattgca	gctttctgta	gaaatggcgg	aagacaaact	aacattttta	aagcgctctc	420
atthagctct	gatgagtact	acaccctga	tattcttctg	atactaaaat	aattttccta	480
gtgtagtcta	aactttttta	aaaagacatg	taatccgcgg	agtttgtaac	tcaaaacgag	540
tgcatctagg	aggtatcgca	agccgtttct	ggattaaatt	cccagctagc	ttgcttgctt	600
agcaggggcg	ggnaaanaag	acatctgcag	cctaggggaag	aaaaccttct	gcattgttct	660
taogtgttta	cgttatttta	tttcctanaa	caaggcngaa	ttgggactcg	aatggttcag	720
ttgggggtgg	ggatcccctg	gtncataaaa	ngtcanaaag	anggtacagg	cggaaacncca	780
aggggtcgtcc	tgcatttana	ctcgggaattt	tggtgcc			817

<210> 604
 <211> 694
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(694)
 <223> n = A,T,C or G

<400> 604						
cttttcaa	atcatttttct	cttctaggta	tancctgtca	ggtggcctaa	tgtaattttt	60
gacatctcta	ngaattttta	tagaaccaga	aatgggtgcc	agagatatgc	ctgcactaat	120
cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa	agcaaaacta	ggcagcattg	180
aaatcaagat	cttttaggca	anaaagtcac	gatgagtttt	agaattattt	taggactctg	240
tggttttctc	ttcatagaaa	tagaaaaaaa	aattgtataa	aaccacaaaa	ggtcctgaat	300
agccaaagca	acactganca	aaaagaacan	agcagggaag	caacacacta	ccngaattca	360
aattatacta	ccagggtgta	gtaaccaaaa	cagcatttcta	ttggcataaa	atagacacca	420

215

agaccaatgg	ancagaataa	agaacccccac	aaataaatcc	atatatntac	cgccanctga	480
ttatcaataa	cnaacaccaa	gaacatatnt	taagggacnt	nctattcaat	aantagtgct	540
ggnaaaaact	gggaaatcca	tatgcagaaa	naatgaaact	agaccctat	ccctcaccat	600
acgcaaannt	caacttcgga	atgggattac	aaaacttaag	acattccaac	ccaagaaact	660
atnaaancta	ctattaagaa	aacagatcnc	nccc			694

<210> 605
 <211> 678
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(678)
 <223> n = A,T,C or G

<400> 605						
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agaaagctgc	aatttcaggt	tttcaaccta	ataggtgata	tttaagaaaa	aaaaaaagca	180
atcgcaataa	gccccactgc	ttttacaaat	cattttttct	cttctaggta	tagcctgtca	240
ggtggcctaa	tgtaattttt	gacatctcta	ggaattttta	tagaaccaga	aatgggtgcc	300
agagatatgc	ctgcactaat	cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa	360
agcaaaaacta	ggcacgattg	aatcaanat	cttttaggca	agaaagtcac	gatgagtttt	420
anaattattt	taggactctg	tggctttctc	ttcatagaaa	tagaaaaaaa	aaattgtata	480
aaaaccacaa	aaggtcctga	atagcccaaa	gcaacactga	acaaaangaa	caaagcagga	540
agcaacacac	taccggaatt	caattatact	accaaggtgt	antaaccaa	acagcattct	600
attgggcata	aaatagacca	aagaccagtg	ggaaacagaa	taaagaancc	caaaataaat	660
cctatatatta	cngcccnc					678

<210> 606
 <211> 263
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(263)
 <223> n = A,T,C or G

<400> 606						
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agtgancana	cntgtcccca	ctgaggtgcc	ccacagcngn	ttgtnttcag	cangggctna	180
caactcgacc	ggcagcgan	ggctggcaga	antgngcgcc	tnnctcattc	ctacgngtn	240
ngccgcagga	aggangacag	gcc				263

<210> 607
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 607		
ccatgtgggt	cccggttgct	tt
		22

216

<210> 608
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 608
gataggggtg ctcaggggtt gg

22

<210> 609
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 609
gctggacagg gggcaaaagc tggggcagtg aaccatgtgc

40

<210> 610
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 610
ccttgtccag atagcccagt agctgac

27

<210> 611
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 611
gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc

46

<210> 612
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 612
gcacatgggt cactgcccc a gcttttgccc cctgtccagc

40

<210> 613
<211> 38
<212> DNA

217

<213> Artificial Sequence

<220>

<223> Primer

<400> 613

gccgctcgag ttagaattcg gggttggcca cgatgggtg

38

<210> 614

<211> 53

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 614

cggcgggcat atgcatcacc atcaccatca catcataaac ggcgaggact gca

53

<210> 615

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 615

gcactcccag cctccacaaa tactggcctg gacgggtttc tctatc

46

<210> 616

<211> 1350

<212> DNA

<213> Homo sapien

<400> 616

atgcatcacc	atcaccatca	catcataaac	ggcgaggact	gcagcccgca	ctcgcagccc	60
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cagtgggtgc	tgtcagccgc	acactgtttc	cagaactcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
cggcaccag	agtacaacag	acccttgctc	gctaaccgac	tcatgctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcggggaact	cttgccctcgt	ttctggctgg	ggtctgctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcgggtggtg	tctgaggagg	tctgcagtaa	gctctatgac	480
ccgctgtacc	accccagcat	gttctgcgcc	ggcggagggc	aagaccagaa	ggactcctgc	540
aacggtgact	ctggggggcc	cctgatctgc	aacgggtact	tgcagggcct	tgtgtctttc	600
ggaaaagccc	cgtgtggcca	agttggcgtg	ccagggtgtc	acaccaacct	ctgcaaattc	660
actgagtgga	tagagaaaac	cgtccaggcc	agtattgtgg	gaggctggga	gtgcgagaag	720
cattcccaac	cctggcagggt	gcttgtggcc	tctcgtggca	gggcagtgctg	cggcgggtgt	780
ctgggtgcacc	cccagtggggt	cctcacagct	gcccactgca	tcaggaacaa	aagcgtgac	840
ttgctgggtc	ggcacagcct	gtttcatcct	gaagacacag	gccagggtatt	tcaggtcagc	900
cacagcttcc	cacaccgct	ctacgatatg	agcctcctga	agaatcgatt	cctcaggcca	960
ggtgatgact	ccagccacga	cctcatgctg	ctccgcctgt	cagagcctgc	cgagctcacg	1020
gatgctgtga	aggtcatgga	cctgcccacc	caggagccag	cactggggac	cacctgctac	1080
gcctcaggct	ggggcagcat	tgaaccagag	gagttcttga	cccaaagaa	acttcagtgt	1140
gtggacctcc	atgttatttc	caatgacgtg	tgtgcgcaag	ttcacccctca	gaaggtgacc	1200
aagttcatgc	tgtgtgctgg	acgctggaca	gggggcaaaa	gctggggcag	tgaacctgt	1260
gccctgcccc	aaaggccctc	cctgtacacc	aaggtggtgc	attaccggaa	gtggatcaag	1320

218

gacaccatcg tggccaaccc cgaattctaa

1350

<210> 617

<211> 449.

<212> PRT

<213> Homo sapien

<400> 617

Met 1	His	His	His	His 5	His	His	Ile	Ile	Asn 10	Gly	Glu	Asp	Cys	Ser 15	Pro
His	Ser	Gln	Pro 20	Trp	Gln	Ala	Ala	Leu 25	Val	Met	Glu	Asn	Glu 30	Leu	Phe
Cys	Ser	Gly 35	Val	Leu	Val	His	Pro 40	Gln	Trp	Val	Leu	Ser 45	Ala	Ala	His
Cys	Phe 50	Gln	Asn	Ser	Tyr	Thr 55	Ile	Gly	Leu	Gly	Leu 60	His	Ser	Leu	Glu
Ala 65	Asp	Gln	Glu	Pro	Gly 70	Ser	Gln	Met	Val	Glu 75	Ala	Ser	Leu	Ser	Val 80
Arg	His	Pro	Glu	Tyr 85	Asn	Arg	Pro	Leu	Leu 90	Ala	Asn	Asp	Leu	Met 95	Leu
Ile	Lys	Leu	Asp 100	Glu	Ser	Val	Ser	Glu 105	Ser	Asp	Thr	Ile	Arg 110	Ser	Ile
Ser	Ile	Ala 115	Ser	Gln	Cys	Pro	Thr 120	Ala	Gly	Asn	Ser	Cys 125	Leu	Val	Ser
Gly	Trp 130	Gly	Leu	Leu	Ala	Asn 135	Gly	Arg	Met	Pro	Thr 140	Val	Leu	Gln	Cys
Val 145	Asn	Val	Ser	Val	Val	Ser 150	Glu	Glu	Val	Cys 155	Ser	Lys	Leu	Tyr	Asp 160
Pro	Leu	Tyr	His 165	Pro	Ser	Met	Phe	Cys 170	Ala	Gly	Gly	Gly	Gln 175	Asp	Gln
Lys	Asp	Ser 180	Cys	Asn	Gly	Asp	Ser	Gly 185	Gly	Pro	Leu	Ile	Cys 190	Asn	Gly
Tyr	Leu	Gln 195	Gly	Leu	Val	Ser	Phe 200	Gly	Lys	Ala	Pro	Cys 205	Gly	Gln	Val
Gly	Val 210	Pro	Gly	Val	Tyr	Thr 215	Asn	Leu	Cys	Lys	Phe 220	Thr	Glu	Trp	Ile
Glu 225	Lys	Thr	Val	Gln	Ala	Ser 230	Ile	Val	Gly	Gly 235	Trp	Glu	Cys	Glu	Lys 240
His	Ser	Gln	Pro 245	Trp	Gln	Val	Leu	Val	Ala 250	Ser	Arg	Gly	Arg	Ala 255	Val
Cys	Gly	Gly 260	Val	Leu	Val	His	Pro	Gln 265	Trp	Val	Leu	Thr	Ala 270	Ala	His
Cys	Ile	Arg 275	Asn	Lys	Ser	Val	Ile 280	Leu	Leu	Gly	Arg	His 285	Ser	Leu	Phe
His	Pro 290	Glu	Asp	Thr	Gly	Gln 295	Val	Phe	Gln	Val	Ser 300	His	Ser	Phe	Pro
His 305	Pro	Leu	Tyr	Asp	Met	Ser 310	Leu	Leu	Lys	Asn 315	Arg	Phe	Leu	Arg	Pro 320
Gly	Asp	Asp	Ser 325	Ser	His	Asp	Leu	Met	Leu 330	Leu	Arg	Leu	Ser	Glu 335	Pro
Ala	Glu	Leu 340	Thr	Asp	Ala	Val	Lys	Val 345	Met	Asp	Leu	Pro	Thr 350	Gln	Glu
Pro	Ala 355	Leu	Gly	Thr	Thr	Cys	Tyr 360	Ala	Ser	Gly	Trp	Gly 365	Ser	Ile	Glu
Pro	Glu 370	Glu	Phe	Leu	Thr	Pro 375	Lys	Lys	Leu	Gln	Cys 380	Val	Asp	Leu	His
Val 385	Ile	Ser	Asn	Asp	Val 390	Cys	Ala	Gln	Val	His 395	Pro	Gln	Lys	Val	Thr 400

[illegible]

```
<210> 618
<211> 385
<212> DNA
<213> Homo sapien
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<220>  
<221> misc_feature  
<222> (1)...(385)  
<223> n = A,T,C or G
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<400>	618						
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tttatcacta	ccaccatcac	ctgggagctc	nttagaaagc	tagtctcccg	ggcaccaccc		120
tggcctactg	aacctaattgt	gcatttaaca	agattnacgt	ngaaatctgc	aaagcacagg		180
ggcngataac	agtaccacct	gntctggttc	ctanccccan	gacccttaca	gtctaaactgg		240
gacacaaggg	cttnaaatca	aattgcctat	cattaagata	tacaanganc	ntgagaaact		300
gctncactta	ttntattaagg	ngctctaaga	cttagaaacn	aaangcantg	ctgagangat		360
tcaaatatga	ngggggncac	tttnc					385

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<210> 619
<211> 869
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(869)
<223> n = A,T,C or G
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<400>	619						
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gcattaaaga	tcctttaaaa	aaatgttttc	ccaatggtta	aaagacaagc	tcaataaat		120
gaactctcat	acatatgcca	aaattgatga	gtagataaat	atttcagtag	gtagttacta		180
gctttctgtg	tatgagtaaa	catatgggag	aaatttaaaa	cactaaagta	gactcaatga		240
aagcatagta	tcctatgtat	tcgttttttc	gaaatgtcta	atgaaggaag	gaacaatga		300
atgaatgcc	ttattcctct	tagagtgtctg	ggacatgggt	ttgcctga	acttcatgtg		360
aatttttata	tttgctacac	attacaccca	tcttagactt	atacgtataa	gacataaggc		420
atatcttatg	tcttacatgt	ataataatct	aagcagaaca	aaaaataacg	aaatattttc		480
ttcccaaat	ttttgagaca	gatggatttt	ccggaagaat	gtgttttagct	tttaatcctg		540
tggttttgtg	taccacctgg	cacacatagag	tgttgcctcta	attcagtgag	ttgtaactct		600
gggtgaacag	tggaataact	aggggtacatt	ttaaaaaatgc	taatgctcgg	gcctcgctga		660
agaccaaatt	aattggaatc	tctgnngng	gnattgatct	ttttataatc	ttcttanang		720
attctaatgg	gcttccaggg	atgaaaaccn	ctgntggagc	tnggaacctt	ccttttagttt		780
ggagaaacc	cgatgagggt	ntnttaggcn	ccgcctnttt	ttggcctggg	cttccccct		840
tatntnttt	tggaangnc	cnaattttt					869

<210>	620
<211>	339
<212>	DNA

220

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(339)

<223> n = A,T,C or G

<400> 620

gngcgggcct	cnccgtgctt	gctctcgctg	cgcagcctct	ttttccacca	gctgtaggan	60
aagcccgaag	accactggtc	cccgggtag	cccaagtacc	actggtcctc	ctggctcctg	120
acgctncggg	tcttcctcgt	ggcgtagact	gccagcttcg	gagaccctc	agccctccc	180
cgcttttctc	caccccagga	ggccatcagt	agcgagctac	tgctcggcc	acaacctccc	240
agcangatag	cccgcggtt	ccaatctcgc	aaaggaggac	cgccnagccc	gaaatgcna	300
gcccagcnat	cactgccacg	ccgagccnag	cgctcgtgc			339

<210> 621

<211> 267

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(267)

<223> n = A,T,C or G

<400> 621

ggggngcatg	gtcccnggta	gccaagtaca	tggtcctcct	ggctcctgac	gctacgggtc	60
ttcctcgtgg	cgtagactgc	cagcttcgga	gacccctcag	ccctccccg	cttttctcca	120
cccaggagg	ccatcagtag	cgagctactg	cctcggccac	aacctcccag	caggatngcc	180
cgcggtttcc	aatctgcgaa	aggaggaccg	ccnagccaga	aatgccnagc	cnagcgatca	240
ctgccacgcc	nagccnagcg	ctcgtgc				267

<210> 622

<211> 847

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(847)

<223> n = A,T,C or G

<400> 622

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acagatgtga	aggatattcc	ctttaatttg	acaaataaca	tacctgggtg	tgaggaagaa	180
gatgcatctg	aaatatctgt	ctcagtggta	ttcgagacat	ttcctgaaca	aaaagaaccc	240
agtctcaaaa	atatcatcca	tccatactat	catccgtact	ctgggtccca	ggaacatggt	300
tgccagtcac	cttctaagct	tcatattacat	gaaaataaat	tagactgoga	caatgataac	360
aaactaggca	ttggacatat	ttttagtaca	gataacaact	ttcataatga	tgcaagcact	420
aagaaagcaa	ggaacccaga	agtggttacg	gttgaaatga	aagaagacca	agagtttgat	480
ttgcaaatga	caaaaaatat	gaacccaaat	agtgacagtg	gcagtacaaa	taactataaa	540
agcctgaaac	ctaaattaga	aaatctgagt	tctttaccac	cagattctga	cagaacatca	600
ggaagtatat	ctacatgaag	aattacagca	agacatgcca	aaagtttaag	aatgangtca	660
acacattaga	aanaagantt	ctgggctttg	aagaaagaaa	atgttccact	tcataaagaa	720
ggttgaaaga	agaatgggag	agcccngaan	tttttgcccn	gaaattttcg	ggaaccctac	780
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aggaat						847

221

<210> 623
 <211> 681
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(681)
 <223> n = A,T,C or G

<400> 623
 aaaactgtac tcgcgcgctg catgtcgaca ctagtggatc caaagaatcg gcacgagcga 60
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 ngctgatgtg gctgcangag ctogtttcac agcccctcan gtgganctgg ttgggcccgcg 180
 gctgccangg gcggaagtgg gtgtccccc an gtctcagccc caaggctgcc cctcaciaaag 240
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 cccaccgtgg gaatccagggt ccccagggtg actgcctgcc ttgccctcac tgcccactct 360
 gccacacatt ccctgcctag anaccgggaa ggggctgtgt cgggtantggg gccacacttg 420
 atgtggcagc accgactgtg ggggtggacc tggccttgcc ggggtgcaaaa gtggggggccc 480
 ngggaaaagc acctgaagtg gcctgaaaa atccccctt aatttttccc caatttgggg 540
 ctcaacaaa aggaattgc tgaagccaan ggtaccaagg tcacccttaa ggccagggtg 600
 aaaaggtccc aaaattccaa tccccacnt ttgggcttnc ctcttggaa cccggccccc 660
 tctcntgaan ttttaaaaaa n 681

<210> 624
 <211> 661
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(661)
 <223> n = A,T,C or G

<400> 624
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 tttttttttt tcctcttctg actgtccatg gacaaatgaa actaacttaa tctaactaaa 120
 aaacacaaact atattttgaa gatttttctat ctgcactcaa ggacactttc cacnccggtt 180
 ttgttacctt ttggtcttgt ctctgaacat gaaattnatc tcaagggtt ngattttctgg 240
 acctcctatt cctgctatgg gtttgatatt tcttgggctc cagggccact gttgcattgg 300
 gntgacagnt acctcctagc ccatancctc ctatcttggg aaacaaacct aacaactacg 360
 tgtaccttcc atagatctct gattgagtct cagtatnccg ttgctcatgg gcgattcact 420
 tgaatccgtn attggtgcca acaatcctga ctcattgggnn aatggatcct atcacgttcc 480
 cctgattngc aacccctgta tacatanatc taatcgcata gaacttagcn tnggntatgc 540
 gcggctacgc tatcagggtt tgntaactat ngcatggcta cgaancotga tcatgatcna 600
 gggctcatgga ctcttatcag gggggttggg ccngncttct ttttcnnacc ttggtaaaac 660
 c 661

<210> 625
 <211> 181
 <212> DNA
 <213> Homo sapien

<400> 625
 gcaacaatca gatcatgtta aagtaaatct ccattgccct ggatcacttc aggatttaat 60
 tgtccaagga gagcaggggt ctctgtgtaa aaaaagggtg ggaaatgttt gagagtaaaa 120
 aatacaaaat tcaaccgggtc gaaaatacac cactccattc agtgctctac ccccataagc 180

222

c 181

<210> 626
 <211> 181
 <212> DNA
 <213> Homo sapien

<400> 626
 gcaacaatca gatcatgtta aagtaaactct ccattgccct ggatcacttc aggattttaat 60
 tgtccaagga gagcagggtt ctctgtgaa aaaaagggtgg ggaaatgttt gagagtaaaa 120
 aatacaaaat tcaaccggtc gaaaatacac cactccattc agtgctctac ccccataagc 180
 c 181

<210> 627
 <211> 813
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(813)
 <223> n = A,T,C or G

<400> 627
 accaagctgg agctcgcgcg cctgcaggtc gacactagtg gatccaaagt gaacgtgaag 60
 gtgagcagag gagaacttgc gatggcaaag ttaaaaacaa gaggagatga tggctttggt 120
 gtggcacagg atgttaaaaa aattctcctg tccttaagga gttactgcta tttgagtaat 180
 gtgccacttc cctacatagc cttctatgca gaaatgctat atttccactt cacaaccag 240
 aacgtgcatt ttatttttaca tttagaggag gaacaaacaa ccagaaggca aaaactggtg 300
 cattatTTTT tgcaattctc ttggaaagag ttcgTTTTta acttctgctc agacagcaca 360
 caactactgg gaatatatTT taatttcaaa tctgatgtgt gacatctggt aactcattta 420
 ttgctaataga agttttcaca ggaagcagca gtcaccagta gctcatctta tttttcagtt 480
 ggcaaagtgt tgtttacott ttattggcct gcatcggtgt ctcttatcac aggatattta 540
 attagaaac gcaagtagcc taacatagaa nagaaatgga gtggtagata atagtagata 600
 gaatggctaa atatttttat tacagtgatg taatatcact gnaatttatg gttaaaaatt 660
 atgtaatact caaaaggaat tctcagactg gogaaacagc tggnaacag ctntcacagg 720
 gctttanact cctnttgagc tttccccctg ntggacttta gtcttccctt tacnccccgna 780
 gtnccattn nttaccaatt gtnccgggaa ana 813

<210> 628
 <211> 646
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(646)
 <223> n = A,T,C or G

<400> 628
 tttggngngn ggtgtctcnt ttgggtggac tttttgggtc gtagggcccc aaggccgtta 60
 atcccgtaat aacggaagac gaagaagagt cagaagagtg cttctataag gatcgggacg 120
 agactacctt agaggaataa aggaaaaaag cagaggagga agagtggtag aaggagtcag 180
 aagaaaccca cacgtcgttc tgaacctgga gccttatcaa aaaggctctag ataaacgata 240
 gcgatctoga tatcgagctc aagaggtagg tttagagact tctcgtctc gagagcgaaa 300
 tgaagatct cgacgacgat aagaagttaa agtgtagagg gtgcttgagg agcgcgtgga 360
 aggattctgc ggagggacct atcgacgtag agacttgaag gcctactaag gtccacaaga 420
 agcccggctc tttctccgaa tggtcggagc gtacagtatg cgacgtcgat cggcagacaa 480

223

gctggcggtgta	gactcgaagt	gttcggggcga	atcgacttat	aatagtcgcg	cgctagtaac	540
gtaggaacac	gaagagtagt	cgaaagaaaa	cgtttagtga	gggaaaagat	tagggaaaaa	600
ggagaggcctt	aataactaag	acacttggag	cctaggccaa	cgcgaa		646

<210> 629

<211> 617

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(617)

<223> n = A,T,C or G

<400> 629

gccccnccc	ccctcctnng	gcttatnngg	acagaccac	gtagtactct	aaatcttctc	60
ctacgccgga	caacggaccc	tataccaatt	cgaatcttgg	acactccgac	cgccggattc	120
tcttccccctt	tcggcttccc	ctttctgtcg	gtacccctcc	ctagtcgtct	cctacacctt	180
cgtaccgtcg	atatatagtc	gccgcggact	agcctattta	ggtgtcctag	actcgttatt	240
gatccactca	ttagtctagt	actatgcgtc	acgtatctta	gttgccctaag	agggagatta	300
aatcctccac	aagttccgac	gaattcctgg	actctcgtac	tagcaaacctt	tcttatgagg	360
cttccttgta	tatcttctgg	atgtttctcg	tgtcccggtc	ctccgctact	actagagctc	420
cttgccctat	ctctagaagt	agaggactct	cgggttcggt	ctccaaatct	agcgctagag	480
ctatcgctac	ccgctcgatt	ccccagcgg	aatcttgaaa	cctgaggtag	tacacaaacc	540
ctccncatct	tcctcgggtt	gtcccttctt	ctcatcccc	cttcccgcct	tctcggaan	600
gaatctactt	tancttc					617

<210> 630

<211> 644

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(644)

<223> n = A,T,C or G

<400> 630

cnntcggcnt	gggttttntt	ctgagnnncc	ccccccccc	cccccccaa	cttacaccca	60
ccaaacactt	tcgcgccctt	acctaggaga	cattagaagg	gtttaggctt	cggcgtatag	120
taaagtcctc	tacctcgga	gtagagaatt	cggtatttaa	attcagggtt	agaggctcgc	180
tcgttagatt	tatagttag	gtttagaatc	ggaaaccttc	gatcttctt	agaagggtaa	240
taagtgaggc	cctaaatccg	tctaaccaag	gcgttaaggt	ccgtacctaa	acctagtctt	300
atcttctatc	aggcgacca	atataggtag	gttctacttt	cgtataggcc	ttaaggaata	360
gttcggtagt	tatcgaaggc	actcctctct	aggctaggct	tttctcagtc	ttagtactcc	420
gggaccgtcg	tcgcanaaat	atcgatggac	ggtaggtatc	tccgcgttac	gcgtcgggct	480
agggatatag	agcgaattat	cggcgagagg	cggtcgctan	gaatcggtat	caatatgntg	540
ttctttaccc	tacggatatc	ggcagaaaac	ataaaacctt	ctnaccangg	ataagggtat	600
atcggacccc	taaaataaca	gtaacattta	gantactagt	accc		644

<210> 631

<211> 526

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(526)

224

<223> n = A,T,C or G

<400> 631

ccntcggctt	gggttttttt	ctgagcccc	cccccccccc	cccccccccc	cccccccggc	60
cccatagccc	caccggnccc	acccaaattt	taacaaaata	aatntaccta	tcgntcacct	120
atcccnogta	tcgngtaggt	cgtaccgggt	accgngatc	ncnacgattn	ttcgggtcgt	180
cnccttaan	acggncccg	agcnccgga	anaaatacta	cgagngactc	taatntagca	240
anaccgcog	tcnattanta	gcatccttag	tcttccaatg	ncgnggattn	ngaatacctn	300
naagttatog	ggtagaacgg	gtcccgggtcc	cccgccctct	ttncaatata	cgccgggtac	360
aaantcgggt	tctaaattcc	ncacgaattt	ngnccggcaac	attcncgggn	ccttattanc	420
cntttccaac	cccgatacnc	nagctcgatc	gggctttanc	gaatccgggg	tcnccccga	480
ngantccggg	tcctttgagt	ngctctagga	cggttacgac	ggagga		526

<210> 632

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(647)

<223> n = A,T,C or G

<400> 632

tttggngggc	gggngctcat	ttgggtggac	tttttgggtc	gtaggaacct	ggtatgaggg	60
gtgttttgag	tttcttcttc	gtcgtctctg	ggagggttcg	tttcgattga	gattcggggt	120
cgtctttatc	ttacgaggca	ccctgatatt	gttgcgcttt	ggtttggttg	tggagagttt	180
tgtcctactc	tagcgggtca	tgcggatgat	atgtagcctg	cgtggcctga	tagtgatggt	240
gtgagcttga	gaggggagtt	gtgggtgttg	cgggcggagt	aggaggggtt	ggagcaccgg	300
gattggggaga	tatagaatca	taagtgttag	gtataggctc	attgagcgag	ttcgtggaat	360
tcgtgtgggtc	atcataatta	gagtgaggat	gggctctata	tttcttagag	gaagcacggg	420
cgtgattcgg	ggtttgatgg	gtgttctctc	tgtgggcacg	attagcttgt	tcattgatgt	480
aaggaccata	ctgtttcgaa	tgaggattcg	tgtcttcgga	ttgttggtga	tattgtggnc	540
tanactatct	agtgtgaagc	ggaggtgggt	tgccgtgggt	gagtatccga	nnttcattcg	600
ganggtatgc	gtgcggagcg	gtcctttagt	acattccgga	aaaatgg		647

<210> 633

<211> 630

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(630)

<223> n = A,T,C or G

<400> 633

tccttcgggt	tgggtttttt	tctgaccccc	cccccccccc	ccccctcgga	aggcctctag	60
gtcccccacc	gtctctctaa	tcctcaggaa	ccgatccacc	caaccaactt	actaatgtcc	120
tacagtaaac	acccgagaat	ataaacccac	acctaggcct	ccaatcctac	cagggaagca	180
agaagccgta	gtctagcgta	ttacgaaccc	gagatagaga	cggagatact	tagttttatt	240
ctctcggaat	aggaaagacg	actggggagg	gaatataggc	tagcgcgggg	ataggggcta	300
tggcggatat	gggggcgggt	cgtctcttta	ttcttctata	ccacgtcaat	aggaaatgtg	360
atatacctag	atgttcccgt	agaaagagac	gttagaggtc	tccgaagcta	taaaggagag	420
gcgcaagaa	acttcgtact	ctagctttat	ataggtagtc	gctctagtcc	cataagcgac	480
gagagatcta	ctagatttcg	gtatcgccgt	cgtatgtatt	cgaaatagtc	ttcttcccct	540
tttcgatctc	ctctctatc	tacatggnga	ttatagtctt	aagatagtca	ggatattagg	600
atattagtta	tatgacgttc	gacgggaacg				630

225

<210> 634
 <211> 647
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n = A,T,C or G

<400> 634
 ccntcggcctt ggggttttttt ctgacccccccc cccccccccc cctccactaa gancttaacc 60
 caaccctata gtttactcgt ataggggaat cgaggagaaa taggaacgaa gagcgggtga 120
 taaagagaaa gtactttcct ttatatgtta agagcttagc gtaatgactt tcgttatatg 180
 gctagttagt tttatccggc gttatagggc ttagttctgg ttatctcggg tctaattccc 240
 ttagtatgct cgggagttta acgaggtcac gggatagcgc gtaccctttc taaggttcct 300
 ggaaagctat tcgttatatta tcgcgattct cgaggtcgaa aggatcaagg atcttccctt 360
 ttactaccct agtcgggtta gcggtcggtc aaaactagt tagtaccttt acctcctcga 420
 aagttatagt cgaaacaacg tatttagtoga aattatagcg gatagatcga gacggttcct 480
 tctcgggttc tcagccggta atccctctat ttgggggtct tctccctctt cccctttgtc 540
 ttccgcctta gcttccaagg ttccctcgaa gcgaggggtt ctacttaagt cgntagcggt 600
 ccttataaac cncctacagg cagacccccct tgtaaacggc tcgggggt 647

<210> 635
 <211> 645
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(645)
 <223> n = A,T,C or G

<400> 635
 ccttcggcctt ggggttttttt ctgagccccc cccccccccc cccgaaactc gccttaccct 60
 agatacccaa agaatagttc cactcaactt cgtctaagta aaactctaga acttccaaac 120
 ataaaagact tcgcgcgggt agctacacag cctacgggaa tctcacgaat cccgattcaa 180
 gtcccactct cgaccacacc ccggtatcgt cgttttccca taccaatgtc gaaaaataaa 240
 ataaaatcca gtcaagcccc acggtaagcg ggggtagggc taggcgaaga ggcaggaacc 300
 gttcagaggc gggggctttc aaaatacaaa acaactactt aaagtgttacc ctttctaaag 360
 togggggcaa cgggttaaagc acgcctctaa agtactactc gtttcgagaa ggggtagtca 420
 tctcccgcat agagactctc gcgtatatca actcgcacgc cttctagcat tccgacggtc 480
 gccgcgggct acatatcttg cggattagct ccgagggact atagggttaa ttagtctagt 540
 aaattctctt agaggatagt cggggtcgta gttaggcagt acgaggggac atggnctgcg 600
 tcgtgctcta ccttgacagc atactcttat aaacatcttt ttccct 645

<210> 636
 <211> 643
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(643)
 <223> n = A,T,C or G

<400> 636

226

ccttcggcgtt	gggtttttttt	ctgaccccc	ccccccccc	cctagcggaa	aacaatcccc	60
accgagattt	tattaatcgt	aaaactcgcc	ttcgggtacca	agtcttcctc	cttcccgtaa	120
cctggctccc	tcctagnngc	tttacgaacg	tccctcctct	tcttacggct	cggaagtggg	180
tacggttaaa	tccggaggng	gggctaacga	atccaaggct	aactcctctt	anagtttgtt	240
gtccnncngt	ttagtaagga	tccgtggagg	gcgagtattt	gncccccggc	ctttattnta	300
tagttcccta	gtacgataaa	gntaccggct	atcctattac	agcggataaa	agttatttan	360
agggcgcgac	tcnccgctag	acaggctaca	gctagnngag	gtaccgcctc	cgactantcc	420
gttgnttccg	acaaggngt	ttcgggttaac	tccacaaaact	cctccgcgca	ctctanggtg	480
gggacggcag	ttccnngcgt	tagtgtgcgt	tatagagaag	ggcatttgag	ttggacgtta	540
cnttttaaca	taggtttattc	cgttttaggtt	cttgccggg	cgtgggggta	gtncnccggc	600
gcgttnntat	cggcgatttt	ccgcagtttc	cgtttccggn	tnt		643

<210> 637

<211> 631

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(631)

<223> n = A,T,C or G

<400> 637

gggttntctc	atttgggtgg	acttttttggg	tcgtaggaac	cggtatgnag	gagtaggagt	60
cgctgggaag	actagaagtt	agctacggac	gattagtgtg	attccactct	taataacgag	120
taatcgttta	cgtcgggttg	gtgtttcggg	gttttggaga	gtaagcgtag	ttgtggagtt	180
tgcataatag	gtccccttac	ttcggcgatc	tcgtcttctg	tcgttaggtt	tattattgtt	240
catccttcgc	attagtagta	gggttggtcg	gataaatcga	tagctattct	ttagaattcg	300
tagtcggaga	attcgtgtac	gaagtccttt	aagttcttta	agttcgcgag	taagacgtgt	360
acggttattt	tgctgcgcac	gtaggtgtcg	tttacgggag	tttcgtttta	ggggtttacg	420
tagaacgtta	ttaagcacgg	taatacgata	gaggattacg	cgacgtattc	gtcttagaac	480
gtcgattttt	cgaaggcgca	tttgttatcg	aaggggagtc	cttgagaaat	cgagatattc	540
caagaatatt	acggagatta	cagatcggaa	ggctcccag	atcggacgta	ttaccggtct	600
cgcccgaaac	gagtaggtat	cntccggata	a			631

<210> 638

<211> 606

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(606)

<223> n = A,T,C or G

<400> 638

ccccccccc	ctcaaccatc	nattccccac	ctcaacgcga	attacggttt	cgaaagtcga	60
caataagtc	ggtcgagtag	agggaaatcag	gggctgggtan	aaaggaccac	gggcggaaaa	120
taccggctct	cttccgggga	gcgacgtcgg	ggaaagggaa	gagagcggtc	tagttcgtag	180
gcaaacagg	cagaaaagtt	aagggttaag	gtcggagggg	agaggatagc	tagtacgctt	240
agttcgggg	tcgggcgcag	ggccaacttt	ctctttcgcg	ttcctttact	ctgcttacga	300
gttcaggctc	cggagtcccg	cgccggagggt	cgtcgcgcag	ctaggaatgg	ggactcgctc	360
agtccccgg	tatccttcgg	gattctatgt	tttcgccgat	agacggagac	cggttagtag	420
ggttccgctg	taccgccaact	cgtcgccttg	atccggcccg	ctccgcttaa	gggcgatgaa	480
agattaggta	ttagggctct	acgggacgag	gcatagggcg	ggagaagggg	ggaggggtcg	540
ggggtcgaag	ggantaagaa	atcgcantcg	cgcggggctcg	gtagganccg	aaatttttct	600
cnnctg						606

227

<210> 639
 <211> 592
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(592)
 <223> n = A,T,C or G

```
<400> 639
tccntcggcgt tgggtttttt tctgagcccc cccccccccc cccccgggaa cgagaaaaca      60
atcccaccct accgcgggga gtgggttgna cgcttagttc tagaatcctc ggaatcgtcc      120
tccggcggttg gtagttccgg cgattccgag tatgccgaag tgtatcgctc cgtctagagg      180
ttggtatctg tttatcgcca tgacgtatatt gactcggatg ctttcgaagt agggggatag      240
gcgcatagat acgcctccgc ggtgtcctct gaagtggccg catccgtgga cgcagcgtag      300
acagctcttg tggacgataa cggcttctcg tactcctact ccggctatta tgttagagag      360
gacttgtttc tgaacggata taccattagc gaaggggtac cctccgctaa cgcaggcggt      420
tctaacagtt cttccgggcg ctccgaattt agattgacgc ctccgcagca ttgtgggac      480
ctcttcggtt agccctcttt ataggatttc tcctccgccc cgaaagangg ctggtcgtcc      540
ccggcangta tgtctagctc gaacgccttg ttactccttt gttttcgaaa na      592
```

<210> 640
 <211> 637
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(637)
 <223> n = A,T,C or G

```
<400> 640
ctttgtggcg gtgngtgtct catttggggtg gacttttttg gtcgtaggct tatccgggtn      60
gggctcccga agtagcttag gatcgccggc tagttccggt ccgcccgcgc gaaagcgcg      120
ttcggcgggc ggccccgcgt tcgttcgcgg gctttaccct catagagtgc cagggtctcg      180
ttcttacggg ttctgcggcg atagatttta cggcgagagg tcggtatctt cgcgcgttta      240
cgttcggtcg gcatctacgc ctagttoaca ggtagtttat gcgccggagc gcgtgacgga      300
gagggttatac gggacgcgga agaaccgcct ccaaatagact agtacaggct cgttcgggcg      360
tagatctcct cgctcggtcg gcggttctta cttctagggc cgctctacgg ttttaaggcg      420
tcgttagatc ttagaaacta tactcaagtt tcagtcggaa gaaaggaagt agagagaagg      480
gtaaacgati acctccggtt ctagcccttt ttactcgcac aacgggagaa cggggtccgg      540
ctctcagata cgctcgcga gacgtcgcga ttcaacttta acctccgcta gggcatccgt      600
atacggttaa cgcggtaaaa gcgacctcgg aaacctc      637
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<210> 641
 <211> 649
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(649)
 <223> n = A,T,C or G

```
<400> 641
ctntgtggcg gtggttgtct cagtttgggt ggatttttgg gtcgtaggna acctggtatg      60
aggtctagtt tcttcaacga ttcttgggtc agttacgcga ccctatcctt atcttacaat      120
```

228

gtctttctaca	tcagggttcat	caattaatat	atcaattaca	cattaacgac	ggtgtgacgc	180
aatatgagaa	agtatacatt	aaggttatta	tatattattc	gcttaaaaag	gttctctgaca	240
tgggacaact	tcaccacacca	ttctagaagc	ccccctcct	gtaggacccc	ctcgagttcc	300
ccattatctt	agttcagttt	tcatttttta	accaggaggg	tatcggtttt	taatagggtac	360
tatttttgtoa	aactttttcag	aagctttatc	ttcaaatata	cttgaccat	ctgtactagg	420
agcactaact	attcgagtct	attacagctc	aacagaaaat	aattgaaatt	aaacaaccta	480
agtatcgctc	accataacct	catcgggctc	tcacccatt	tcttcataag	ttctagagca	540
tcttgagctc	tttctatta	ccttgatgg	tactcatgg	ctaatacccc	ccgcagttat	600
aggctcttat	ggatcctatg	ctaccaccgg	totaatccct	tctatcacn		649

<210> 642

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(645)

<223> n = A,T,C or G

<400> 642

tccttcggct	tggtttttt	ttcgtcgcgg	gttactatta	tcgattgtta	cttgtaaagg	60
cgatactccc	accgctcacg	atattagacc	tgctcctcta	gaagcgaacg	gcgataggctc	120
tactcggccg	gcgaagacgg	cgaacgggta	ggaggagcca	tatgcaaccc	taacggagat	180
tataagtact	gggaaaaata	ctagtattaa	ggtagcgggt	taagatagg	ggagagacac	240
tattcacgag	cataagcact	tagaaggctc	tctcgaggag	aggtaggcta	cggactacgt	300
tccttcttcc	tctagcctcg	agagggagta	tagatgatc	gcaaaagaga	atccctccta	360
tacgctggca	taactagacg	acgcgtcgtc	gggaaatctc	gccaaacctc	ttgcgacctc	420
caaaaggaag	attgtcgttt	catagaacgc	taatactccg	ggtcttcccg	aatcatagcc	480
gcatatcggt	aagaagacgg	taaaatcgcg	cgattctaac	aagattctgt	agacttaagg	540
ctaagcacta	gaagcgatct	cgattccgga	tcttaagatc	atactaatag	ttcgggtcaca	600
ccagacgacg	attagccact	agaagcccta	ctccgtngaa	accgg		645

<210> 643

<211> 586

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(586)

<223> n = A,T,C or G

<400> 643

ctttgtggcg	gcggtgtctc	atltgggtgg	atltttgggt	cgtaggaacc	tggtatgcag	60
ggtccgcccc	gaattaaaag	cgggatcccc	aaaacgnngn	ttcgcaagaa	gagaagaatc	120
atagcgatag	anctttcata	gtacaaaggt	aactaagagg	aaaataatgc	agattcagaa	180
ctagttgccca	aattagaact	cgattaggcc	aaggatccga	gcctggcgct	atcacttcgg	240
gacttaagct	acggtagagc	agtcggctct	gaagcatagc	tcccgtagga	cgtaggaaac	300
tagtccggca	cggaggacat	actctcgagt	ctcggaaagt	ctatttagaa	tataaacgca	360
ttaacctcag	aaggcgccga	cgcggttact	ctctagggaa	ctatttcatt	ccttccggag	420
ctccccattt	tttccaacac	atataccggc	aaaggaaaat	cttntgtcct	cgggtctaaag	480
agagggaaaa	aaaacgatat	ctaggttcgg	gtttatccat	ttaaaaanat	ngacgcgact	540
actccctttc	aaaggggagt	tccccctagg	nagagttcaa	cngaag		586

<210> 644

<211> 646

<212> DNA

229

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(646)

<223> n = A,T,C or G

<400> 644

ctttgtggcg	gtggttgtct	catttgggtg	gcatttttgg	gtcgtaggaa	cctggtatng	60
agggctattt	gacttgtttc	tcaaatccca	tggatatggtg	ggtggcgtgc	gggggtggcgg	120
togggttcggc	gggggtgggg	gtcgtcctcc	aaaggagttg	ctagagggct	tttagtggtt	180
ttagggcggg	aagggttag	agcggagaga	cgtcgtcgtg	gaagcttctg	gcggagcgcg	240
agaaggtagt	tagcgccgg	tcggaagatt	ctcagaattc	gagaagaggt	agtggggcgc	300
ggagagagag	tttctaagtc	taaacgtaga	ggtcgtccta	gtcgggccgg	gagtagcttt	360
taagctagag	gtcgaggtcc	tcgttttaggc	tccgggctct	tcgggcagta	tcctctttct	420
cgaggaacgg	agcgaccgac	gtcgtagccg	gaccgcgtcta	tccgtacgtt	tagagatacg	480
ctcacctcca	cgggcgtata	tgcccgata	cgtataaacg	cgtaataatac	tcgcgcgtaa	540
aacacgtata	cactatatac	acgcacgtgta	cggaccgtat	agcgttatac	gcgcgcgtat	600
attaattttac	acttatatac	gcgttaaacac	gatatatcac	acnccg		646

<210> 645

<211> 654

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(654)

<223> n = A,T,C or G

<400> 645

ncnctcggct	tgggtttttt	tctgaccccc	cccccccccc	cccccggtcg	acaacgtgcc	60
caccgttgcc	atcccagcat	agctgggttg	ttctgtttta	ttcttagtag	tttagttcgc	120
ctatagtccc	tcgtctatcg	tctatcattt	aaggaggcgg	ggctcgtct	ttagggcggg	180
tatcttaggt	attcttctgg	tttcggctgc	cgtctcggag	tctggtcctt	ttgctttcct	240
ttcttggtcg	aacttcgtgt	ttgatcgctg	tgtttctttg	gggtcgtcat	acctaaagggc	300
cacttcgcca	acaaacaagt	ttgtgtagtc	gtttctatta	gggttcgtcg	gcgggcgctc	360
ttactggttg	gcgattttta	acgcgttttg	ttttaatttg	cttcctcccc	tagggctcgc	420
tcggtcttct	ctctgttcgc	tgctctogtc	cggccttttg	tcgggggata	gctccggcta	480
ttanegtgcc	gtgtccgtgt	ggnttttgtc	caatgtgaag	gcctaggggt	gcgggccttct	540
ttggccatgg	nttccctct	tgtgancctt	aggggtaacg	antcgttaatt	naaggctcggg	600
ggttggnata	cgtnntangg	gangcctgng	tccgntattc	cttgtttttg	cctn	654

<210> 646

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(645)

<223> n = A,T,C or G

<400> 646

tccttcggct	tgggtttttt	tctgagcccc	cccccccccc	ccccacgcc	aagtacacag	60
acccaccaaa	aacaacgtca	acacaacttc	gggtatacgg	accttaagag	agaccccgta	120
gtagacccta	ccacagccat	ccaatagtca	aacaacaagg	gcgcacccaa	tcacatccata	180
gagctatcaa	acaacggagg	ggaaagggaa	gagcagggtc	aacttagcag	agatcgaagt	240

230

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cggcactaat tcctttcaag tactcgctcg gcttgtagtt cggggtaaag tccgctctca 300
aagggccaac gaggttttaa agcgaccccc gtatcgagtc ttcttcgtat tcattaaggc 360
gttaaaggta cgagacctag aagagagtag aattagccca ccaaatcgcc taaaccggca 420
aaaacgacca aaagtcaaag acccttacaa atatcacctt aaaacgcca ccccaaaaac 480
gogatcagta acgcacgtac ctttcccacg cttttctttc ttctactctc caaaacaaac 540
ccgaatattt agcgcaaaaa atatccgagg gagaattaga agctattacc cgaaaaaaa 600
ncgganangg antaaatngt ggggaatana cgtttggttt ttctg 645

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<210> 647
<211> 753
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

```

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<400> 647
accttacctg gtaccgggccc cccctctogag tttttttttt tccaaataca actcagattg 60
tatacgaaaa gctgataata cattgacttt tgctgtttta atcccttgag cctttgataa 120
tgattttttt tgtgttaaca attgtagtat ataaaatcgg attcaccatc cttctgatgc 180
catattgatt agtttgattt tatggtgatg ggatcattgt gtgttaactg tattaagaag 240
aaatggattt gattgacttt gcatccattt ttatctgtgt tactttcatg ttttatttaa 300
aagcatttct ggaccagaat aagttaagtg gtataatttg ctttttacac gtttatataa 360
ttgaagtttag caatgtggca aaatctctaa tggaaataaa atgcttcaga atgatgacat 420
aaatctgagc tatttcttgc ctggagaaca agtggtattc ataataattt aatagcttct 480
gaggtgtttt gttcatgtga tgaaggctta tccaccttgt atcaattcat gggctctgct 540
ttgtttaatg tagtcaggtt gtttaatacna gacttaagag tcctctact gtgataagtg 600
gtgagtgaag attacatgtc ttangaaaaa tatactggga atatctctga cattaatggg 660
tttaaattgtt ttaaggctag gggatgatgc aatgganaaa atncttccaa angtttctgg 720
ttgtttatat ttgnngaagn catnaagana ccg 753

```

```

<210> 648
<211> 383
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

```

```

<400> 648
gatataccgg ggaaatgcgg aggcctttng gcttacgtgt ttaccgcgta gggcaaagcc 60
ttgncaaat cccggccagc ggagcggcga ggggtggggac tcacgggaag ttaaacagcc 120
tcgtcggcgt cctcgaggct ccaaaaccag gctctaggcg gggacgactg cagccgttat 180
ggaggccacc gcggtacgg ccgoggctga ggcctcccca ggtggagcgg tggcctggag 240
gggaatcttg atcctgggcc agccacctgt caagaggagg cggagcgtca tgctctgga 300
agactggatg aatattctcc aggagcctga cgaaggcgaa gaagtctttg cagaggaaat 360
tgaatgctgt ctgatgctac aat 383

```

```

<210> 649
<211> 349
<212> DNA
<213> Homo sapien

```

```

<220>

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231

<221> misc_feature
 <222> (1)...(349)
 <223> n = A,T,C or G

<400> 649							
cgattgtnta	cnagtcttag	agtaagctta	agntcgntac	cgagctcgga	tcactagtc		60
cagtgtggtg	ggaattccat	tgtgttgggt	cactagtaaa	tggaatttagc	tagacanagg		120
anatttacc	tattccattt	agcacagtga	gganaggcta	nacagctagg	atgcaataaa		180
aaaaatttta	atgagaaatg	tgtgtggtag	attaattcta	ttaatctcaa	gttatagatt		240
aaaaatttta	agtaccncat	aaatgccatt	tgcctttgct	aangntacat	ttttatgaan		300
aangacntg	catacnaat	ganatactgg	actttnggna	cttgangga			349

<210> 650
 <211> 306
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(306)
 <223> n = A,T,C or G

<400> 650							
cattgtgttg	ggagcatcct	tccatcagct	cccatgagaa	attctctggt	gggtttaagc		60
aatcccaaaa	tatatcatat	tgacatgaat	atatcatctc	ctcaatgtcc	agcattagca		120
gacaagatga	gtgctgaaga	tgatataact	cctacctctt	atgtaggcta	gaggtaaagt		180
ctggctctgc	tgactgtggg	gacataccga	aaaggaatgt	gggttaatat	cagangacct		240
ccctgcagat	ccganantca	gggnctggac	tttctgggan	aggaagcnaa	aagttatntc		300
tgaacc							306

<210> 651
 <211> 769
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(769)
 <223> n = A,T,C or G

<400> 651							
cattgtgttg	ggcaggtca	tttctaaggc	atgggctgga	agcttttatt	taaaacttta		60
catgtcttag	aagcactctg	gttgttgcta	ggcagacaat	tttacatctc	ttgctataacc		120
agttgcatga	agttcatcat	gcataattggc	tgtggaaaac	cttaacagca	tcattgtcata		180
aggtttcagt	aaggtttaaa	tgaaatcatg	tattaagcac	ttagtatagt	gcaccttaaa		240
tgttagcttc	aaaacaatga	caacctaaact	aatgttgaaa	gaagcttggt	tttgtaaatt		300
atgtcttatt	gaaagatgtc	atcaaatact	gttatttcta	atcccttaaa	gtctctcaat		360
gtatttcttt	ttgccatctc	caatgacagg	accttagttt	aagccagtggt	ttctctcaac		420
ttctaatacca	gagataacct	ggtgtcccca	agaccttttc	agagcatcct	tgatgtcaaa		480
accattttta	taataatatt	aaaatattat	ttgctcattg	tactottatt	ctctcccaaa		540
tattcagcga	gttttccaga	agctatatata	catgtggtaa	catcttatca	ctctgacgat		600
taatagaata	tgngnttttg	gattcttgng	tttaaaattt	tctcactttg	gggttctaatt		660
atggnnacga	ttaatagata	tggnctccat	gaccagangg	ctttaagca	ntcaataatt		720
tttaagagac	taagnactat	cctttaaaga	tngngaactc	catcttaat			769

<210> 652
 <211> 267
 <212> DNA

232

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(267)

<223> n = A,T,C or G

<400> 652

nnangccctt	taaccattgn	ggcctccaag	cnntggcggc	cgctctacaa	ctagnnggac	60
cgcnaactcta	gnanaangat	tggctcttnt	gggntggggc	ggncgggctg	gggcgttaag	120
cggggctggg	cgcgcgccgn	ggttgnacna	ggcgcgcccg	ccncacacn	cccggagcac	180
cctcnttgcn	gcctntcccc	gctcaccocg	cgcgcgccgn	tccgcttttt	ccncacccan	240
agcncntttt	atctntgtct	cctccgg				267

<210> 653

<211> 501

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 653

cccnttnacc	cattgctgga	ctccaccgog	gtggcgcccg	ctctanaact	agtgggatcc	60
ttncnatgag	atngcgang	gaggacnnat	ttgctatnct	ggatggggct	gantcntnta	120
gctnctctag	cancagatgg	gttatcgagg	aagatgactc	caangggcta	nantcctatg	180
cncatcctaa	aanncanctg	ctgtnttcoag	agtacgcgac	acatcatcnc	tnatgcattg	240
ntgancaaga	cgggcangtg	cttatccotca	gcgangatgc	ccttaaccan	gagctcgaat	300
ggacntatca	ccttanaggt	acanntnccg	caccacacac	cngcttgenn	cctgacgctg	360
gactggatcn	cttagggcac	caatnccccg	tttnccacat	ncctgggacn	ctananatac	420
tcganggggg	gcccgggtanc	caattcgccc	taatactgag	ccttgntacg	nacgctnact	480
ngngntccta	ttanaacggt	g				501

<210> 654

<211> 710

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(710)

<223> n = A,T,C or G

<400> 654

gcgnctttan	cncatgctgg	gctccacgog	gtggcgcccg	ctctacacta	gtggatccca	60
acactgagtc	caccacagna	aaactcanca	ccaggcagac	cccacaactg	cagaatccag	120
gctgcaattc	acagactaat	cntctagacc	cacctcagta	ccagatggta	ccacacagct	180
caaggnttta	ggtttgctg	gtanactcaa	tctctatctt	tcaccaactgc	cagcctgact	240
tcagagatcc	tgnctctgg	acagtcoctca	gtggcaggca	actctcagga	gcctcaggnt	300
tttggcacat	cccagnacca	gccagctgcc	acaggccctg	accttntanc	aacactgccc	360
atgtattcca	gacttctanc	ataccacagt	gccatgctga	ttgcatctat	agangctcag	420
gtgcncctca	aanctgtgcc	tgctgcagna	ngccccacgt	ctctggcatg	ccccaatgcc	480
atngntggna	acanttgact	tctgggcatg	ntggaattcc	ctaccaactga	ncctgaccat	540
aggnggganc	ccattttttt	cgaggggggg	gccccggccc	caattccncc	ntatagnag	600
ncgtanttac	gcgcnctta	ctnggcngt	ngtttaacaa	cgtcnntgan	ctggggaaaa	660
cccctggngg	cnacccaaat	taaaacngct	tgcannacat	ccccctttcg		710

233

<210> 655
 <211> 202
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(202)
 <223> n = A,T,C or G

<400> 655							
ccccttttccc	ctttcanccc	ccccgttttg	gcnegccgccc	acacctactn	catccaccca		60
cantcgacca	cccagacttt	tttccgatcc	cancatcnat	gcngattttt	tctntgcntg		120
ctgngcctgc	acctttgnta	ggtcaagcct	ggcccatctt	cgacaacttc	ctcatcacca		180
acgatgaggc	atactctgac	ga					202

<210> 656
 <211> 308
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(308)
 <223> n = A,T,C or G

<400> 656							
gctgntgaaa	gaccacaccg	aaaaactctn	ctttccgact	tccacatgat	gatcngcatg		60
tggtgggtgag	agacttatca	tgacgacatc	gcttccnacc	atcgcanccn	ctgcccgaagc		120
ccattcatgg	aggcctgggn	antttctgtga	ntgacntnga	cnctanacnc	tnccactgtn		180
tgctatccag	acttgnttng	aataatnttat	tggcnaaana	canttnccgga	atgctgtgnt		240
tgnnccattga	angatctgat	cactatgaga	gggtgaggac	nncctgctng	ctggcactnt		300
ntaaccnn							308

<210> 657
 <211> 696
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(696)
 <223> n = A,T,C or G

<400> 657							
accnttttcca	caatnctggn	ctccccgcgg	tggcgggccgc	gtcgaccagc	aacctcagct		60
gtgggtctttg	ttacagtaat	gagttactgt	aaggaaagtg	tgacatttcg	agcaattttga		120
tttgttttaaa	aactagagca	gtttcagggg	tttcccttgta	aatctgtctt	atgtgtcttc		180
aatgtttcttt	cttgaggagt	agagaaagga	attgttagga	atgatgcata	aacctatggct		240
tatttttatct	cgctgccacc	cataatcaga	gcagattctt	gggactatga	ccctcatgga		300
gacatgacaa	ttgtgtgtgt	ggtgggtggg	agaaaagagc	tgggaatttt	tagggctctag		360
agggtccaat	caggactatt	ttatggagct	ctgctcacca	actttaagtg	agcaccaggg		420
gtgngaaagc	gaatcttggg	ntcaaaaana	caatggnaag	gggtaagttg	gtatnctgaa		480
ctggccactt	cggactctta	tttaactggg	tattctcant	taaggaggcn	nggggtggtct		540
tggcttgttna	aggaaagcct	gtgcaatgga	atgactttta	aaccccccat	taaaaaaaaaa		600
angntataaaa	tcttgggtct	taanaangaa	gcctgggttc	tnttanocca	tttttcccccc		660
gggaaggnaa	atnttcttag	gnaanggaag	ggaag				696

234

<210> 658
 <211> 698
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(698)
 <223> n = A,T,C or G

<400> 658
 ctggactccc cgcggtggcg gccgctctag aactagtgga tccgtgttgg ctcaattctc 60
 aaggctgttg ctgtgcggcc tgttccccac acgtgctgct cagctcaggc aagcaccgag 120
 cttgtgttgg ttcatgctca gcgtggaggc ccctcctcca ggtcgctgct ctgtgggggtt 180
 cccatacact caggctccta ggaggagtcc atttagaaag ccagggtttt tctcagagtc 240
 ttagttcctt gtgctgtcat ccatttcaca cgacttgggc cctgctcggg gcaacacagc 300
 aagagaaaag acagggaata taagagaggg accttgcaca cacacgctct ggaccacaga 360
 gccctgtgcc cagctcctct gtcaatacag gtggaatctc gtgcaggatc gcaggggtct 420
 gtgatgccac caaagagcag gccgggacag ggtaggaga gaaaggagag ggaagtgggg 480
 gtttctccta cgcactctta ttgacagagg gaaaggcggg ttgtattgg ggttgtcgg 540
 ctttgcaccc acngcacagt tgtgagacac ccccatcctn agatcaaagc cccacataca 600
 gcttggggaa aaacaaaacn aaacaaaaca aaaacagtaa acctccatgc canttgttgg 660
 gnaagttttt aatttntctt ccnaccan cttgcttc 698

<210> 659
 <211> 750
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(750)
 <223> n = A,T,C or G

<400> 659
 ncaanctggc ctccaccgcg gtggcgggcg ctctagacta gtggatcctc ctcatgggcc 60
 tggatatctc tgaacatatg atgaacattg cttatgaaaa attatttgta ngaaaattgt 120
 gaggcctaag aatgntatct tcttttagtg atggctcttg ttgcttctg taaggnaactt 180
 gtgggcactc gtaagcttgg atctctttaa tctaatacca gntttgagat tttcttggcc 240
 ccatagatga attaaaactg gcgtacttct tgtttacaag anggataagt ctctagggt 300
 aagtcttttg ggtcccaag tcaaaaagat gagggattta ccagttctct aaccttggt 360
 gccccagact ccaaaacttg ccttctagtc ccaagaggct atcaaaaagc aaaggccatc 420
 ttccaccttc ttttccanaa cagcacacat tccagacagt acttgaaagc aggaacctcc 480
 ttatccctta aaaacctctt ggaancatct tccctctctt gcttctacta tgcttggccc 540
 acctancatt cncntttttc tggaaaccgg aaaaancttn tgacttnngt tggctacatt 600
 cagcttggcc ccctacaatn tggtttccat ctgccctaan gaaattttta agggcacttt 660
 ttttntggcc cctgactttc nntttttagg gctttcccc angctttgcc cctttggtta 720
 aaggggttat tttccttccc cttttggaag 750

<210> 660
 <211> 849
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(849)

235

<223> n = A,T,C or G

<400> 660

tcggatccac	tagtccagt	tggtggaatt	cgcgcccg	gtcgacggg	agtagtgga	60
tgcntntcta	aatgttataa	ttatttcaga	attactctgc	cagaaagtta	tgatcataca	120
tagaagagtt	tgtagctaac	tttgaaagta	gtggaaagt	gttttcatgt	attgtttggg	180
ttaatttaaat	tttgattata	tttggttttt	agttcaggta	atTTTTTgt	tgaaaacttc	240
aaatgacaat	ttcttcatgg	ttactaaaga	tcactcatgt	ggagtagttt	cagatttttt	300
tctgaataca	tgtattactt	ttagagatgt	aaagatgtga	aattactaag	agagaaaccc	360
atgtgatttg	tttagtggat	caaaagtcgg	tagctccttt	gacctaagt	gccactgata	420
gttaaataga	tactgaagct	atgggcaggc	tggattgata	agaaaaagg	agacagagaa	480
atgggaaatt	gggaaagaac	tgtgcaaata	ggaaaaggag	agagcaacag	aacagaatta	540
gtaccacagt	gccgaagtgc	cacctcaggt	acttccatct	cccatctcct	gaagaattca	600
gtaacagttt	gcaaattggc	aacacaatca	tttagtgatc	ctgggttgata	ttttcaatac	660
tttctgggga	tttcttggct	ggnttcaaaa	gatgatgctg	atagttttat	tgccccgtgaa	720
ggtatttctga	agnttancat	aattttattgg	tcagtaaaat	atTTGaataa	aagngganga	780
aggaaaatct	ggcntcttat	tttgggatnt	cngcngggg	aangaggata	taattnaccc	840
cggccttg						849

<210> 661

<211> 653

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(653)

<223> n = A,T,C or G

<400> 661

aacttaagct	tggtaccgag	ctcggatccc	tagtccagt	tggtggaatt	cgcgcccg	60
tcgacctcca	ttcgtttcct	gtcctttttt	ttcatttttt	ctcatgttct	attcacttta	120
ggtttctaag	ataaatatta	taaaataatt	tttacttata	aattattcac	tgataccctg	180
tctttaacat	gtgaaatgaa	ttcaaaagga	atcttaaatga	gaaataatat	actcatgatg	240
tttaatagat	ttgatttoga	aataataagc	cctctgaagt	cctaagttaa	aaataaagca	300
acttgtttga	taatttttca	tcaagaatgt	atctgagtct	ctgagtaatt	attagtagga	360
atattccatt	atcacaaata	cacagtataa	gctatttagt	ctaactttac	caaaaaagg	420
agctacttca	acactgtgtg	agacttttaa	tgggtttgca	ttgggtatgc	actattagca	480
agataacctta	ttttacagca	gtgtttntta	acctttccca	tttatttgaa	aggcagctaa	540
gatatagtag	ttaatntaan	gggctgatgc	atTTatatta	catgtagana	atgggagata	600
cnaaaggag	nggggggana	tnTTTTgnat	tcnnaagctt	cnttgncaat	taa	653

<210> 662

<211> 646

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(646)

<223> n = A,T,C or G

<400> 662

aaacttaagc	ttggtaccog	agctcggatc	cctagtccag	tgtggtggaa	ttcgcgccg	60
cgtcgaccca	gggacaggca	gccagngctg	gggtcaccag	gggtccctct	tggtccctcc	120
aanagcaaca	gtactggcaa	cagctgggat	ttgctgagca	cagactctgc	agcaggctcg	180
ggtgagctct	ctgtgcctgt	tccttcatac	catcctcacg	cccatccatg	agatgggtcc	240
agctgttttc	agatgagaaa	atggcacagg	aagctggtaa	gtgacagtca	gaaatgaatg	300

236

ctggcagctt	antccttggg	cccaccgcag	tgccaggacct	tgctcaacag	ggatcacccct	360
tgtccgccac	ctgttcatga	ggccacccag	ggtttgtgtg	gtcatttgtc	tcctttcatc	420
tgcttgccct	caaccagctg	ggtcattagg	gctgggggaa	ccagacccca	cacagtcctt	480
ctcccgagang	ccagacacac	nctncgccac	agnaaggact	tcagtccccg	aancaaatgt	540
ncctgggcgt	anaaaactgna	gggncccca	tccttggtgg	ggtactgctt	tgcaactggng	600
gaattcaccc	ctcattgnna	acctttccct	nttnncaccc	ctaaac		646

<210> 663

<211> 650

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(650)

<223> n = A,T,C or G

<400> 663

aacttaagct	tggtacccga	gctcggatcc	ctagtccagt	gtggtggaat	tcgoggccgc	60
gtcgacgtcg	acgcggcgng	cogtttcgac	gcagttgata	catattatta	tatactacat	120
nggtttttcta	gaattaaaaa	attaatgtgt	agtgccagcc	ctagatgtaa	gttacatata	180
tcaactctat	ccaattttgt	cagccataaa	acttaccttt	ttcacatact	tctaactcta	240
acaatgtgag	aaatgtagat	cattgcaatt	ataccacaaa	ggcagatggc	tacatgcaga	300
atggatagca	gaatctagct	acttacgcta	gccacatggg	agacgttttt	tcctttgttt	360
ttgcaaaaatt	gcaatataag	ttgcatatcg	ttagagttaa	aagatgtaaa	gaacccatag	420
aagccagtga	tgaaggacat	ttatattttc	acctttacaa	angaccttaa	aattgcctat	480
gtggagcaga	aactggagga	gggcnaaanc	atongtaaaa	aaaattttgn	tnctatttgg	540
atgtgggcac	cattattacc	tccccaggtg	cctttttgnt	ttaacctttc	ttttaaaaaa	600
aataattcnt	aatttttggg	caaaaaaaaa	caagggtttt	attttaaattt		650

<210> 664

<211> 678

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(678)

<223> n = A,T,C or G

<400> 664

taaaaatcta	gactacacta	ggaaattatt	ttantatcag	aagaatatca	ggggtgtagt	60
actcatcana	gctaaatgag	agcgttttaa	aaatgttagt	ttgtcttccg	ccattttotac	120
agaaagctgc	aattttcaggt	tttcaacctt	ataggtgata	tttaagaaaa	aaaaaaagca	180
atcgcaaata	gccccactgc	ttttacaaat	cattttttct	cttctaggta	tagcctgtca	240
gggtggcctaa	tgtaattttt	gacatctcta	ggaattttta	tagaaccaga	aatgggtgcc	300
agagatatgc	ctgcactaat	cttaagtggg	gatttatgta	tttctcaagc	aagtgtattaa	360
agcaaaaacta	ggcacgattg	aaatcaanat	cTTTTaggca	agaaagtcac	gatgagtttt	420
anaattattt	taggactctg	tggtttttct	ttcatagaaa	tagaaaaaaa	aaattgtata	480
aaaaccacaa	aaggtcctga	atagcccaaa	gcaacactga	acaaaangaa	caaagcagga	540
agcaaacacac	taccggaatt	caattatact	accaaggtgt	antaaccaaa	acagcattct	600
attgggcata	aaatagacca	aagaccagtg	ggaaacagaa	taaagaancc	caaaaataat	660
cctatatatta	cngccnc					678

<210> 665

<211> 694

<212> DNA

<213> Homo sapien

237

<220>
 <221> misc_feature
 <222> (1)...(694)
 <223> n = A,T,C or G

<400> 665
 cttttcaaatt cattttttnct cttctaggta tancctgtca ggtggcctaa tgtaattttt 60
 gacatctcta ngaatttttaa tagaaccaga aatgggtgcc agagatatgc ctgcactaat 120
 ctttaagtggg gatttatgta tttctcaagc aagtgattaa agcaaaacta ggcacgattg 180
 aatcaagat ctttttaggca anaaagtcac gatgagtttt agaattattt taggactctg 240
 tggcttttctc ttcatagaaa tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat 300
 agccaaagca acactganca aaaagaacan agcagggaag caacacacta ccngaattca 360
 aattatacta ccagggtgta gtaaccacaaa cagcatttcta ttggcataaa atagacacca 420
 agaccaatgg ancagaataa agaacccac aaataaatcc atatatntac cgccanctga 480
 ttatcaataa cnaacaccaa gaacatatnt taagggacnt nctattcaat aantagtgtc 540
 ggnaaaaact gggaaatcca tatgcagaaa naatgaaact agaccctat cctcaccat 600
 acgcaaant caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact 660
 atnaaancta ctattaagaa aacagatcnc nccc 694

<210> 666
 <211> 705
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(705)
 <223> n = A,T,C or G

<400> 666
 tttaaaaatt tagatacact angaaaatta ttttagtatac agaagaatat caggggggtgt 60
 agtactcatc agagctaaat gagagcgctt taaaaatgtt agtttgtctt ccgccatttc 120
 tacagaaagc tgcaatttca ggttttcaac ctaatagggtg atattttaaga aaaaaaaaaa 180
 gcaatcgcaa atagcccac tgctttttaca aatcattttt tctcttctag gtatagcctg 240
 tcagggtggc taatgtaatt tttgacatct ctaggaattt taatagaacc agaaatgggt 300
 gccagagata tgcctgcact aatcttaagt ggggatttat gtattttctca agcaagtgtat 360
 taaagcaaaa ctaggcacga ttgaaatcaa gatcttttag gcaagaaagt catgatgagt 420
 tttanaatta ttttaggact ctgtggcttt ctcttcatag aaatagaaaa aaaaattgta 480
 taaaaccaca aaaggtcctg aatagcccaa gcaacactga acaaaaagaa caaagcagga 540
 agcaacacac taccagaatt caaattatac taccaggtg tagtaaccaa aacagcattc 600
 tattgggcnt aaaatagacc naagaccaat ggaacagaat aaagaaccca aaataaatcc 660
 atattttttac agccagctna ttatcaataa aaacnccaag aacnt 705

<210> 667
 <211> 817
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(817)
 <223> n = A,T,C or G

<400> 667
 nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag 60
 agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120
 tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180

238

agtgcaggca	tatctctggc	acccattttct	ggttctatta	aaatttcctag	agatgtcaaa	240
aattacatta	ggccacotga	caggctatac	ctagaagaga	aaaaatgatt	tgtaaaagca	300
gtggggctat	ttgcgattgc	tttttttttt	tcttaaataat	cacctattag	gttgaacc	360
tgaaattgca	gctttctgta	gaaatggcgg	aagacaaact	aacattttta	aagcgctctc	420
athtagctct	gatgagtact	acacccctga	tattcttctg	atactaaaat	aattttccta	480
gtgtagtcta	aactttttta	aaaagacatg	taatccgcgg	agtttgtaac	tcaaacgag	540
tgcacttagg	aggtatcgca	agcogtttct	ggattaaatt	cccagctagc	ttgcttgctt	600
agcaggggcg	ggnaaanaag	acatctgcag	cctagggaag	aaaacotttc	gcattgttct	660
tacgtgttta	cgttatttta	tttcctanaa	caaggcngaa	ttgggactcg	aatggttcag	720
ttgggggtggg	ggatccctcg	gtncataaaa	ngtcanaaag	anggtacagg	cggaacncca	780
agggtcgtcc	tgcatttana	ctcggaattt	tggtgcc			817

<210> 668

<211> 826

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(826)

<223> n = A,T,C or G

<400> 668

cggggggnnt	tacgtctctc	tggaogcttt	tattgtacca	gggogatccc	agcccaactg	60
taccatttga	gtccctactc	ctgcottgct	ctagggaat	aaaataacgt	aaacacgtaa	120
gaacaatgcg	aaagcgtttt	cttccctagg	ctgcagattg	tcttcttcac	cgcccctgct	180
tagctagcta	gactagctggg	aatttaaatcc	agaaacggct	tgogatacct	cctagatgca	240
ctcgttttga	gttacaaaact	ccgoggatta	catgtctttt	taaaaaagtt	tagactacac	300
tagggaaaat	tatttttagta	tcagaagaat	atcagggggt	gtagtactca	tcagagctna	360
atgagagcgc	tttaaaaaatg	ttagtttgct	ttccgccatt	tctacagaaa	gctgcaattt	420
cagggttttca	ncctaataagg	tgatatntaa	gaaaaaaaaa	acaatcgcan	atagcccact	480
gctttttacaa	atcatttttc	tottctaggt	atagcctgtc	agggtggccta	atgtattttt	540
gacatctcta	ggaatttttaa	tagaccagaa	atgggtgcca	gagatatgcc	tgactaatc	600
ttaagtgggg	atttatgtat	ttctcaanca	agtgattaaa	gcaaaactag	gcacgaatga	660
aatcaagatc	tttagggccag	aaatcatgaa	nanttttana	attattttan	gaatctgtgg	720
cttctcttct	taaaatngaa	aaaaaaattg	tttaaaccca	naagggtctga	atacccaagc	780
nccctgaacn	anagaacaan	gccggagcac	cccctcccaa	atcccc		826

<210> 669

<211> 547

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(547)

<223> n = A,T,C or G

<400> 669

cattgtgttg	gggaaaaaat	gatttgtata	agcagtgggg	ctatttgcga	ttgctttttt	60
tttttcttaa	atatcaocta	ttaggttgaa	aacctgaaat	tgacgctttc	tgtagaaatg	120
gcggaagaca	aactaacatt	tttaaagcgc	tctcatttag	ctctgatgag	tactacaccc	180
ctnatattct	tctgatacta	aaataatttt	cctagtgtag	tctaaacttt	tttaaaaaaga	240
catgtaatcc	gcgaggttag	taactcaaaa	cgagtgcato	tnggaagtat	cgcagccgtt	300
nctggatnaa	attcccagct	tgctngcttg	ctnagccggg	ggggcgtnaa	aaaaacatct	360
gcagcccngg	ggnaaaaacc	ttcgcattgt	tcttaoctgt	ttacgttatt	ttatttcctt	420
nnagcaaggc	nggganttgg	ggactcgaaa	tggtacagtt	gggctgggga	tcgcccttgt	480
tacataaaaag	ncgtccagaa	gagggacggt	tacaggcngg	ganctccaaa	ggtcagttccc	540

239

tgccatt 547

<210> 670
 <211> 232
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(232)
 <223> n = A,T,C or G

<400> 670
 cgaactatatt agactaccta ggaaaattat tttagttatca gaagaatata aggggtgttag 60
 tactcatcag agctaaatga gagcgcttta aaaatgttag tttgtcttcc gccatttcta 120
 cagaaagctg caatttcagg ttttcaacct aataggtgat atttaanaaa aaaaaaagc 180
 aatcgcaaat agccccactg cttttacaaa tcattttttc cccaacacaa tg 232

<210> 671
 <211> 214
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(214)
 <223> n = A,T,C or G

<400> 671
 ctcccccttcc ntccttcgct actnncnatt ttcnnaaatt tntttcgct atgnnggaaaa 60
 acaccacat tnttcanctc gcacagaaca ngnggggggtg tgtaaaatga agggcttccn 120
 cncctttctct tattnaanaa cactnaaana gggangggct aaaaccgcg ngatntctac 180
 nctatcgcg gcgcttttg ngttggctag aaga 214

<210> 672
 <211> 328
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(328)
 <223> n = A,T,C or G

<400> 672
 ngancagcgg ngttttaaagc ggcctctaga ctcgaggaga cncctgttgg atgggtggatc 60
 acanntcgnt actactatac aggacagagt atcggganct cttggntgtt ggngcctgcc 120
 aaccactgct nctgttaact gcgtatctga agggactcgg actggcttca gaagaactac 180
 cggtctgaat gnaccatgga tgattcnnc tagttgaaaa aaaactcagg cacatgtatt 240
 gccactgatg actagcgcca gactnctctc ggctctntaa cgagcccaca tgncngtgtg 300
 ncnccegtgc tgnctccaga agaggttc 328

<210> 673
 <211> 223
 <212> DNA
 <213> Homo sapien

<220>

240

<221> misc_feature
 <222> (1)...(223)
 <223> n = A,T,C or G

<400> 673
 gggggcacaag ctggctagcg tttaaactta agotttggtac cgagctcgga tcccnagac 60
 attgtgcatg aaaatgcaaa ttgagtgtgg tctatantgc catcntcacc tnctgnengc 120
 tcaaaaacaac ngcttttctgc tgcaatgggt agggctcctn acncacggtc gcnnacggag 180
 gccncttat cctcntcggg nnggatccct ngaagcatnt tct 223

<210> 674
 <211> 256
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(256)
 <223> n = A,T,C or G

<400> 674
 gnggggtcnt ngatgagcgc gcgtaatacn atcacntnctn ggcnngntgg gtaccggggcc 60
 cccctcnaa gcggccgccc tttttttntt ttttttcatn acatgataa ntctttnttc 120
 taaacagacc acaccactan agttcctttt ctttngtacg gaattgagtt aaagtagagn 180
 atacaatgca gggcttcnnc tctatttcac attccaggnt gggtcngnat ggatcggccc 240
 tgcctctcog atgggt 256

<210> 675
 <211> 439
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(439)
 <223> n = A,T,C or G

<400> 675
 nnactagtcc agtgtggtgg aattccattg tgttgggctt gtatgggttt ttttgtctag 60
 ttntttggga aatgttngtg ttactatntt ttggatatna tatatgatat gtatggccct 120
 tctatgggct cctcanacng aactcaacca ttttccacaa aaccnattcc tcttttcctt 180
 tcatgactga gtggtgttgg tactatccng gaaactggga cattgtcctt cacatctntc 240
 ccttanctgc ctngtccnat tgatgtcttt gagctntgan atgtctttgt taactntctc 300
 ctncntctgt actgccggca naattaagca ccatntgtca caaaaagtat tgcgttacct 360
 tcacgnatct gttngttnc atncttgctg cttctcngn ggaaaatagg ctnttctggc 420
 aaccgaacng aanaaatac 439

<210> 676
 <211> 587
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(587)
 <223> n = A,T,C or G

<400> 676

241

ngngnggcectn	attaagcgcg	cgtaatacna	ctcactntgg	ggcgaattgg	gtaccgggnc	60
cccctcaagt	tnatntgccn	aacctctctt	ttggaataac	aaaagggtta	acacatatgt	120
cctcataggg	acgcgctttc	acacnttcoct	gacongcttca	tanacntcat	tnctattttct	180
cctcagnaca	agtttnaggcn	gaaggtgagg	canacnttat	aattttccatt	tcacaaatnc	240
ggaaagtgag	gctcaaaggg	nttaaaaaat	aacctgatac	aantcataga	gccggtntct	300
ggaanaagca	ggagcaaagt	ccaggcatcc	tgatccaagc	tnggtccact	gccttccact	360
ctggagaggg	ttcatctccg	acaaaggaag	ggacntgagt	ggctgganaa	tctcatggga	420
taaagacctc	agnatttcat	gctcctggaa	atcccatggg	ttgaacaaca	ggtntttggc	480
ccgtgggttct	ntccctttgn	ccatctttta	accttggggg	aaatgatggc	ntctntnagc	540
nttttttttn	aaagagatng	aaattgaatg	attattingct	cattggg		587

<210> 677

<211> 444

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(444)

<223> n = A,T,C or G

<400> 677

gtggggcctn	attaagcgcg	cgtaatacga	ctcactatag	gggcgaantg	ggtaccgggc	60
ccccctcgaa	gcggccgccc	tttttttttt	tttttactgt	ccaaactntc	tatngatnta	120
ggtgaactgt	ncaacgattt	catgaaattc	tatacacana	gccttcaggt	ccagagagta	180
aaacaaattt	aaatttnttc	accanattgn	agcagncana	agcatccnat	nataatccgac	240
tacaatgaat	nataatgctna	nggtanctna	tttaccact	ntgggggtctt	tanggtctgt	300
cacaaactat	tttcgtaaac	atcnntttta	anttnggtga	atggacctaa	tnccagataa	360
ntctattttna	tntacccctag	catnccctgtg	gctnactttt	cgggctgtgt	tggcntactt	420
ttagggagaaa	attggtataa	atnn				444

<210> 678

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 678

actagtccag	tgtggtggaa	ttccattgtg	ttgggagcag	tttaaaaaaa	aaaaagacna	60
aataatacnac	tcttgatnaa	acataaagggt	acagtgggtct	atgaggaana	gaaaagggtac	120
ctnaggatgc	aaaantacct	accacatggg	aaccgttngt	ccacactcat	tccnnanaaa	180
accgagtcct	ctcanttnca	cacgtgtacg	tttcagttgg	gaagtgcctg	ccattactcc	240
naagcctaga	accttcacgt	cctgaagggtt	ctggaagggtt	tttcagattg	cttaaganac	300
gcngcccttc	catattcntc	tccactaccc	nggggaacgg	aacaaatgga	gctgcgacng	360
ggaagcgctcc	cttcccntcc	gaacgctttc	tttcaaacct	gcctgccttc	cngggcaatg	420
gaccgggaagg	tttncntngct	tcctttcanc	ccnaattact	tcctgngttg	aaaattggcc	480
tgttggttttg	caaatgcngg	aatttggtta	ctttcntcat	gtcctgtgtt	gnncnaaccg	540
gctcncctgt	tgccctccctt	tngaaagggtt	ttcatcaggc	cccgcccttt	ctcttntaan	600
ngtcctaatac	cggncnggac	cactcgggga	aaattttttc	ttttcgaaaa	gccgccccnt	660
ccgtccggct						670

<210> 679

<211> 449

<212> DNA

242

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(449)

<223> n = A,T,C or G

<400> 679

actagtccag	tgtggtggaa	ttccattgtg	ttgggagtag	gtctactaca	ncctacttcc	60
cctatcatan	aagancitan	caacnttcat	gatccccccc	tcntanncct	tttccctcanc	120
tgcntoctag	tcctgtttgt	cctnttccta	acantcntaa	ganagatnac	taatnctact	180
atctctnacc	tcgggaanct	acaanacgtc	tggaactatt	cngaccccat	gcancncat	240
notccatcgt	cctcccagcc	cctncccttc	ctttacntta	ctnaacgaag	gtcgacgac	300
cctccentac	ctcccnnncc	attgggnccc	aanggnactg	gacctcacga	ntacaccnac	360
tacggggnga	ctaagnctgn	aactccttac	atatntcccc	gttaccnccn	gaacncagcg	420
aacngcnaca	ccttggaant	caagaanta				449

<210> 680

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 680

tttongtgtg	gtggaattcg	cggccgcgtc	gacgagaaga	nggaggagga	naaggagaag	60
gagaagaagg	agaanaagga	ggagaaggag	aagaaggaga	agaaatcatc	atcatcatca	120
tcactgtct	ngcaactatt	taagtgttgc	antcccttga	aaacaggtac	ttttgtttca	180
atgtttggga	ccactnctga	cnatgannag	aanaccaata	aatgcttgat	naatgaaaaa	240
nccacttttt	acctgttaga	accctgaggc	taagagaant	gatgtgactc	gacttagtta	300
ccacaaacta	tgatcctagc	atnaattggg	gcactctcaac	acctcaactc	cctgtgcaag	360
aacagatttt	caatgtctac	tgatgatttt	aaatggatta	nttcctctct	ttacttctta	420
agggcatgaa	gntttatgaa	acaaaaactat	ncagttccag	acgcttaacc	cacatagtgt	480
taatagtcac	cttcaacaca	cnactaaacc	cccaaaaaan	gntttttacg	gngtttcgac	540
agttttcttt	tcctttttgac	ttgnttaaca	cccnngacaa	ctttgtnctn	tttccntgaa	600
tcacancttt	cnaanancca	atggtncggg	tttttctcnt	tcngggccct	tccttnttn	660
aaaaccanac						670

<210> 681

<211> 494

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(494)

<223> n = A,T,C or G

<400> 681

tcatgggtgtc	cacagtctga	tgtgagcgca	ttaaatttaa	ggatctccgc	ccttctcctt	60
aaaactcagg	acttggcaat	gancctagga	agcgcccctc	ccctcccan	ccanaccaa	120
gccccggacc	gctgcgnctc	cagctgcgcc	tagtgaaacc	gccgaattcg	aattcacact	180
cggngggccg	gcgaaggtgt	gcgcgcccgc	gggagcgccg	gggcnagccc	gagggactgc	240
aagccaanaa	nggaggcatg	ggtggcgggg	ggcgccgtct	gatccaggaa	ggagcgagg	300
cgccgatcac	acactcttna	gacgccctgc	ccgcgcctgg	ccagcgcgca	gnctgcagga	360

243

cgcgcgggagc	aggaactcgc	tggagtttgc	caagccccc	gnctctggaa	agtntgtagc	420
tccctttcgg	ancgnctctt	ctggcccttt	gggacgggtg	tgtcattggg	cggggggtctg	480
tataaggggg	ggac					494

<210> 682

<211> 263

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(263)

<223> n = A,T,C or G

<400> 682

tgatcattca	agcgnrtgngc	gnataacgat	tgctnagccc	aacctttcat	agggtcgttc	60
ctttgggaat	nggatgtcta	ttgaatggca	gggatagggg	cactcggcat	tcgcctctgg	120
tacagttttg	catatatatc	ctcatcgcca	gcgagcgtag	ggganccgta	agtttgggga	180
aatgccnccg	catgnccctn	ccggagctta	aacccccaac	aatncccat	ttnaaaaaag	240
ntttnttant	taaaaaaaaa	aac				263

<210> 683

<211> 255

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(255)

<223> n = A,T,C or G

<400> 683

cttgcccggc	atgcacagac	ntntttacgg	acacnctact	ccaagnagagc	ctgnanctgt	60
ctacgggtcaa	nctctaaggt	tngncantgc	cacanatggc	atagtcccca	gggcgggtan	120
tctggantgc	tctctgcact	tgaacntaaa	gcgcntttca	aganaggnc	aatngcctgc	180
ctcttgacaa	cnaacaancc	cacaccnacc	tangaccctn	tangcaagga	ctggattctg	240
naaatgcaat	acaca					255

<210> 684

<211> 922

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(922)

<223> n = A,T,C or G

<400> 684

acccttcatt	tcatgtgctt	ctattttcc	acatctttta	catgactaag	ggattaatga	60
aatcacctct	tcataatcat	gaccataatt	tcaccaaca	agtactcaag	tttggtgtta	120
gcacttttatt	aatgcttacg	aattctctct	ctctccctct	ttctcttttc	cttagtcctt	180
gcacaataag	gatttttgaa	tgtataatat	catcttaggt	aagctttcat	atggttttgg	240
catatgaagc	ttatgactgt	cataagccat	accaagcctg	tggagtatgg	catgattttc	300
attacataat	ccaatgaaaa	tagacttatt	ttaaatccct	aactttgtag	ttttaatttg	360
tatttcacta	tcttgaaatt	aacagctagt	acttatccat	cacagcagtc	tcctactgac	420
atgaagcaag	ttgttgaaatg	cagtaganca	tgaatgaaag	catttaaatgt	tanacaaaaa	480
tgggtgatac	ccaagcattc	tgaattattt	gcatcaagga	atgggacatg	tacattagt	540

244

```

gcattcatttc taccaatatg tgacttgaat tgtttttttta aaaaaaggan aatgantttc 600
tcaattttgct ttaaaaaaatt ttnaaaaagt tcaatggcat gctgctttgt ctggacttaa 660
tttattaaca attnttaanc ctcccttaag gacanaattt tgggtgttcag gatcnccctg 720
aaggggtctta ttttttnatan nattccaaac ccaaaagggtg gtttaaaatg ggnggggttcc 780
ccccncnaaa atttggaccg gctttttttat atttaaaaaa nttncnnttt gngtttgaaa 840
nctnaatacc aattaagggg gaatttttacc tnccagtggg aaaaaaaaaac nctngccttt 900
naaaaaattc ccnggagnca at 922

```

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<210> 685
<211> 531
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(531)
<223> n = A,T,C or G

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<400> 685
tgaggctctg taaaactggt cctctgctag gcatacttca tattctctat attaaactca 60
tctttaattg gcatggaaga ttcatgttgc caaatctcag atgaagatcc tatattggat 120
gcaattaagc ctggcagcgc cctcaaaaga cagtcttgtc actgctagcc acagccagga 180
cacagtaaca gttcccttcta gtgaccnag accataanaa atananatct aaagaattct 240
gactccaaag gcattagccc attcctggta ttgccaatta tgatagaaaa aattgccaaag 300
ctcctgggac atggaaatac actcagtaca tttgagaact ggagaactan tttccaaaat 360
agtatgaaga catganggtg attgtagata tntgagtttg gagaanttga gggaaatcng 420
attacacatg ttactacaaa gagatgtttna taagtaaaga aggcctgata tacaatctaa 480
cagacnantg agataaatct taantcacia ctgacntccc ttttggggcg g 531

```

```

<210> 686
<211> 336
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(336)
<223> n = A,T,C or G

```

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<400> 686
ggngncctna tgagcgcgcg taatacgatc atatagggcg aattgggtac cgggcccccc 60
tcaagaacac tacaagctat gtctctttct canagagccc tgaantttta acatattgaa 120
agctctnatc ttgccaanaa actccactta acttcaaaac acaccctcca cacacatcat 180
gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc 240
anagaagcag ttctcaaant gcagctnaaa aagaaactga aaaccaatt catgcaanac 300
ctagggctta tttgagagca ttttccagtg cagatt 336

```

```

<210> 687
<211> 271
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

```

```

<400> 687

```

245

aatctgcact	ggaaaatgct	ctaaaataag	ccctaggtct	tgcatagaatt	gggttttcag	60
tttctttttta	agctgcactt	tgagaactgc	ttctctggac	ccctgttcct	gaagtatgcc	120
atcttaggatt	ctgggttcagt	aagatctcag	ttaatcatga	tgtgtgtgga	gggtgtgttt	180
tgaagttttag	tggagttctt	tggcaagatc	agagctttca	atatgttnaa	acttcagggc	240
tctctgagaa	gaggacatag	cttgtagtgt	t			271

<210> 688
 <211> 740
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(740)
 <223> n = A,T,C or G

<400> 688						
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cgaagcggcc	gccctttttt	tntttttttg	tgagagttta	aataaaatat	ttgagtttaa	120
tttaaagttt	gagtttaatt	aaaatatatg	gcataatcca	agttgggctt	tgcaaaaaga	180
acacttctca	ggaactgtta	gttggtgtac	caggaactca	gaagggtcct	gttattaaat	240
atatttggaa	aatgcacgga	ttctctgaan	atcncctctgc	atgtgagcaa	cacttacatc	300
ncaaaccaaa	attggcattg	catacatnaa	ccaatatttc	ccaaacattt	ctgggttatgg	360
cccacccccct	ttgtgtanta	cttatttgctg	ttttttggaa	ccctggggaa	attacttaaa	420
atatttcagct	ggaaattaca	ggcgttactt	ttaaggganc	agaattaca	gtgactccca	480
aaattgcaag	tgttgattac	tatttaagaa	ccaagaatt	tgaaagaaat	tttgaaaagt	540
gaaaacngga	aatnttaaat	gacttctcaa	attttgaaaa	ctcnggnaaa	catctccact	600
ttggtnccct	tccttttaaa	attggctaaa	aattntttnt	tatnccccacc	ccattggaan	660
tncccccccc	ctggaacaat	tggattcccc	tatttcctaa	aaaacggccn	ccccccccgg	720
ggngaacncc	nacnttttgn					740

<210> 689
 <211> 635
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(635)
 <223> n = A,T,C or G

<400> 689						
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aaagaagtgt	acaaagttag	gatgtttcct	gagctctcat	atatctgana	atgtcatttt	120
acatctccgt	cttcacctct	caaaaactct	ttcaattctt	tggtctttaa	tagtaatcaa	180
cacttgcact	ctggagtcac	tgtaattctt	gctcctttac	agctacnct	gttattttcca	240
gctgaatatt	tttagttatt	tcccaggggt	ccaaaaaaca	gcaataagta	ctacacaaag	300
ggggtgggcc	ataaccagaa	atgtttggga	aatactggct	catgtatgca	atgccaaatc	360
tggtttgcna	ttgtantgtt	gctcacatgc	agagtgaatc	ttcaanaaat	ccatgcattt	420
tcacaaatata	tttaataaca	gggaaccttc	tganttcctg	gntacaccaa	ctaacagttc	480
ctgaaaaaatg	ttctttctgc	aaaacccaac	ttggggatat	gccatatatt	tttaattaaac	540
tcaaactttta	aattaaactn	caattatttt	atttttaaact	cctcaaaaaa	aaaaaaaaaa	600
aggggggggcc	cttccaangg	ggggncoggt	tcccc			635

<210> 690
 <211> 3923
 <212> DNA
 <213> Homo sapien

<400> 690
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ggctgcagcc gagggagacc aggaagatct gcatgggtgg aaggacctga tgatacagag 120
gaattacaac acatatactt agtgtttcaa tgaacaccaa gataaataag tgaagagcta 180
gtccgctgtg agtctcctca gtgacacagg gctggatcac catcgacggc actttctgag 240
tactcagtgc agcaaagaaa gactacagac atctcaatgg caggggtgag aaataagaaa 300
ggctgctgac ttaccatctt gaggccacac atctgtgtaa atggagataa ttaacatcac 360
tagaaacagc aagatgacaa tataatgtct aagtagtgac atgtttttgc acatttccag 420
ccccttttaa tatccacaca cacaggaagc acaaaaggaa gcacagagat ccctgggaga 480
aatgcccggc cgccatcttg ggtcatcgat gagcctcgcc ctgtgcctgg tcccgcttgt 540
gagggaaagga cattagaaaa tgaattgatg tgttccttaa aggatgggca ggaaaacaga 600
tcctgtttgtg gatatttatt tgaacgggat tacagatttg aaatgaagtc acaaagttag 660
cattaccaat gagagaaaaa cagacgagaa aatcttgatg gcttcacaag acatgaaca 720
aacaaaatgg aatactgtga tgacatgagg cagccaagct ggggaggaga taaccacggg 780
gcagaggggtc aggattctgg ccctgctgcc taaactgtgc gttcataacc aaatcatttc 840
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cccaacattc tccatatact cagccacact cattttttaat atttagttcc cagatctgta 960
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gctgcctaata atgtagctga ctgtttttcc taaggagtgt tctggcccag gggatctgtg 1080
aacaggctgg gaagcatctc aagatctttc cagggttata cttactagca cacagcatga 1140
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tcattttccca cttttgtgcc cattctcaag acctcaaaat gtcattccat taatatcaca 1260
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gatttttttt ccagataaaa gttaaaatgc ttagccttgt actgaggctg tatacagcac 1440
agcctctccc catccctcca gccttatctg tcatcaccat caaccctcc cataccacct 1500
aaacaaaatc taacttghta ttccctgaac atgtcaggac atacattatt ccttctgcct 1560
gagaagctct tccttgtctc ttaaactctag aatgatgtaa agttttgaat aagttgacta 1620
tcttacttca tgcaaagaag ggacacatat gagattcatc atcacatgag acagcaaata 1680
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ttgtagttaa ttgaaagaaa tagggcactc ttgtgagcca ctttaggggt cactcctggc 2040
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ctcattattc tccagtaaat gtgataataa tgtcatctgt taacataaaa aaagtttgac 2280
ttcacaaaag cagctggaaa tggacaacca caatatgcat aaatctaact cctaccatca 2340
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tgttcatgga tagtccaata aataatgtta tctttgaact gatgtcataa ggagagaata 2640
taagaactct gagtgtatc aacattaggg attcaaagaa atattagatt taagctcaca 2700
ctgggtcaaaa ggaaccaaga tacaagaac tctgagctgt catcgtoccc atctctgtga 2760
gccacaacca acagcaggac ccaacgcagt tctgagatcc ttaaatacaag gaaaccagtg 2820
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caagaggttc aaaaaccaac tcattatctt ctctttcttt cacctccctg ctctctctcc 3180
tatattactg attgcaactg acagcatggg cccaatgta gccatgcaaa tgagaaaccc 3240
agtggctcct tgtgtacat gcattgcaag ctgctgaagc cagaaggatg actgattacg 3300
cctcatgggt ggaggggacc actcctgggc cttcgtgatt gtcaggagca agacctgaga 3360

247

tgctccctgc	cttcagtgtc	ctctgcatct	cccctttcta	atgaagatcc	atagaatttg	3420
ctacatttga	gaattccaat	taggaactca	catgttttat	ctgccctatc	aatttttttaa	3480
acttgctgaa	aattaagttt	tttcaaaatc	tgtccttgta	aattactttt	tcttacagtg	3540
tcttggcata	ctatatcaac	tttgattctt	tgttacaact	tttcttactc	ttttatcacc	3600
aaagtggcct	ttattctctt	tattattatt	attttctttt	actactatat	tacgttggtta	3660
ttattttggt	ctctatagta	tcaatttatt	tgatttagtt	tcaatttatt	tttattgctg	3720
acttttaaaa	taagtgattc	gggggggtggg	agaacagggg	agggagagca	ttaggacaaa	3780
tacctaatgc	atgtggggact	taaaacctag	atgatgggtt	gataggtgca	gcaaaccact	3840
atggcacacg	tatacctgtg	taacaaacct	acacattctg	cacatgtatc	ccagaacgta	3900
aagtaaaatt	taaaaaaaag	tga				3923

<210> 691

<211> 882

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(882)

<223> n = A,T,C or G

<400> 691

ttactcacta	tagggctcga	gcggccgctg	aattctgctg	cagtgagctg	tgattatgtc	60
cctgcactcc	agcctggatg	acagaacacg	atcatttctc	taaagacaaa	caaaaaacat	120
aaaataaaaa	tagtataagg	atagaagccc	agggttgatt	taagtctgcg	gaaatcataa	180
accataggtc	agacttctca	ttgatgaggt	acttggtggg	tagaatacaa	ttaggtatat	240
ttggtctaga	aaccaggatg	gaattagaga	ataaaagact	gagcaatagc	atgttatagt	300
attagaaata	ctatagaaat	aggaaaagcc	ctgattatga	ctttggagtt	ctgatccaac	360
atctgggatt	attttagatat	tttaaaggaa	aacgatgact	tttagctctc	aggatgttag	420
tttcctcaac	cataaaatga	agagcctcga	aaagatttcg	tttaccagat	tatttctgaa	480
gtcaattcca	gtttctaaaat	tccatcactg	ngcactaagg	caaattgaat	tgaataaagt	540
attgggnatg	cataaaaatac	tctattttta	aaaangaata	gtaattatcc	attggnaaca	600
gacgcantca	tccagncatc	tcctaccctg	ncccatgnon	tatgtagana	tgtanctcta	660
atcccttaac	aaaccgattt	tgcaaaggag	cttanctctg	gggtacttgg	tcanggcaac	720
tggtctactt	tnaagactca	tcttcactta	ctgggcacca	aatncctacc	attgcatcaa	780
actgggggtt	ccatncaagg	caaaccctgn	gaaatcttta	atcccgaat	tggcgcccaa	840
ttttgngggg	tttccnaaaa	gaatcntccc	ccccgagggg	cc		882

<210> 692

<211> 235

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(235)

<223> n = A,T,C or G

<400> 692

ccgcactngt	aangnccgcc	agngngctgn	aantccgctn	agcncggatc	cactagtcca	60
ttgatggtaa	aagggtagct	tactggnatg	tccgntctgt	ccanganata	atacncagga	120
cttctcanag	cacttaatat	gttaatatata	aactncngna	aaaaagatnt	tcnatgaanc	180
nttcctctta	ggaggtcagg	ngagaatagt	gttaatgnca	ttaagganag	aacga	235

<210> 693

<211> 383

<212> DNA

<213> Homo sapien

248

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 693
 nttatgtaag aaatgtcata tatcttttat tttctttaaa tcaaaataaa tatgactttg 60
 agcatcccat cccatgcccc atcctatcag aatggtagga acatcaacac aaataattag 120
 taatgcaccg catctacatt cccatgctct ctttacttct tcagcattgc ctaaaggcat 180
 aatacacctt taattaatta attcagcctc ctaatgcaca ttaacaaagc ccctgctaga 240
 ctctgtccat aatggnaaac ctgnatgata cttgatatta acantttaag gaatgctcat 300
 ggattggttt cagacttaaa aaattgaggg ggctgaanaa aatctaangg anaaatcatg 360
 gaagcatttg cacatattac ata 383

<210> 694
 <211> 204
 <212> DNA
 <213> Homo sapien

<400> 694
 tctcttggct ggtcagcctg aagggtagga atgactcacc aacgctacta atccttcttc 60
 actgtccctt atttttttcc ctcccaggct cataactcga gggttaaactc tcttttatac 120
 aagaaccctg tctgatgaag catcatttca gaattttaag tcaacttaca aatgtggtat 180
 tattcacatc tgagtacaaa tttta 204

<210> 695
 <211> 670
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(670)
 <223> n = A,T,C or G

<400> 695
 gcaccagccc aggtgctggt tcttcacttg agctccatga cctccctgt gtggtgggtt 60
 gaacggtgac ctccaaaaga tatgtccacc tggaacctca gaataagatc ttatttggaa 120
 tagtctttgt agatgtcagt aaggtaaaga tttggagatg agaccctoct ggattaggtt 180
 aggccctagg tccactggca ggtgtgcttc tcagggctctg aaaggggaag acagggccac 240
 ccagaggagg agacggaggc agagacaggg ccaccagag gaggagacgg aggcagagac 300
 agggccaccc agaggaggag acggaggcag agacagggc caccanagg aggagacgga 360
 ggcagagaca gggccacca gaggaggaga cggaggcaga gacagggcca ccaaaggag 420
 gagacggagg cagaanacag gccccccaa agaaganacc ggagggcanaa aacagggcca 480
 cccanaggag gagacggagg canaaacagg gccaccccaa aggaggagac ggaggcaaaa 540
 cagggccacc caaaaggagg aagccggaag gaaaaaacag ggcccccca aaggaggaag 600
 ncggagggcn aaaaanaggg cccccccaa agngagaaaa ccnggnaggc nanaaaaccn 660
 ggggcccnnc 670

<210> 696
 <211> 317
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(317)

249

<223> n = A,T,C or G

<400> 696

tgacccggttn	tttctgcaaa	ggagagtggg	gaaggagggg	tgggaagaca	aaagttacat	60
gtagcaggg	aagagaacag	aattttatcc	acccttatct	ctttagttag	tgaacaaaca	120
gcccactgtc	atcgtggata	catttcactt	ttttcacatg	actaaggagc	tctccggagt	180
gaagagttag	taaatatgtt	tattacgcat	tcatttgcta	agaatcatca	agaacccaaa	240
gttagagacg	tttcgtgggt	gaactttctc	cctactgtct	agtagaatta	tatggggatt	300
ctggatctgc	tggtgcc					317

<210> 697

<211> 246

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(246)

<223> n = A,T,C or G

<400> 697

ctncagctct	aatcgactnc	tatnaggnat	gatggcncgt	gcngcgcgta	cgtantgctt	60
ggatcctcnn	anagcggacg	cctactacta	ctaaattcgc	ggncgcgttg	actttttttg	120
tttttttcct	tnacagagnt	ntttttgtgc	ccttggttct	tatgctcana	ctcngcaaaa	180
aanatcaaaa	gntacnnatg	aaaaacntat	nccatctnca	naaaggaggt	gnagntatta	240
ctttct						246

<210> 698

<211> 3674

<212> DNA

<213> Homo sapien

<400> 698

agaaagtttc	cttttttttt	tttaatggtg	aaaagatata	cacatatatta	gaattagcca	60
gctgggctca	gttttagatta	ttccaatttt	gttggaaca	tccagagcat	cgtaatcagg	120
agccagtga	acatatctct	tcttctctcc	atcaggccaa	atcacggtgt	tgaccttggc	180
cacatcaatg	tcttagaact	tcttcacagc	ctggttgatc	tggtgcttgt	tggttttaac	240
atccacaatg	aacacaagtg	tggtgtgtgc	ttctatcttc	ttcgtgggtga	ctcagtggtc	300
agcgaaact	tgatgatagc	gtagtggta	agcttgatc	tcctgggagc	gctcttccaa	360
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250

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<211> 2051

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(2051)

<223> n = A,T,C or G

<400> 699

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251

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<210> 700

<211> 2841

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(2841)

<223> n = A,T,C or G

<400> 700

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252

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<210> 701

<211> 3228

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(3228)

<223> n = A,T,C or G

<400> 701

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<210> 702

<211> 4894

<212> DNA

<213> Homo sapiens

<400> 702

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259

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Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu Thr Gly
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Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu
      65              70              75              80
Tyr His Arg Glu Lys Gln Val Leu Ile Gly Gln Trp Val Glu Ser Gly
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Trp Glu Gly Trp Ser Gly Phe Leu Gly Gly Gln Leu Ala Gln Asn Leu
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260

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<210> 707
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<400> 707
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 35 40 45
 Glu Glu Lys Phe Met Thr Met Val Leu Gly Glu Ser Leu His Pro Pro
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 Ser Phe Leu Phe Gln Ile His Ala Thr Trp His Val Gly Gln Glu Tyr
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 Leu Cys Pro Gly Ser Cys Leu Glu Gly Glu Val Val Cys Trp Glu Gly
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 Ile Ala Gly Gln Glu Gly Asp Pro Gly Leu Arg Gly His Thr Lys Arg
 100 105 110
 Lys Lys Arg Ile Pro Arg Thr Tyr Pro Ser His Leu Trp Ile Pro Gly
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<400> 708
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261

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 Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe
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 Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg
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 Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp
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262

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263

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<223> n=A,T,C or G

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<210> 720
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 <223> n=A,T,C or G

<400> 722
 anctggagtc gcgcgctgca gtcacattgt ggatccanaa aatcggcaca agctctcntg 60
 gnttcntcga tatgaanaac actaatccca tgtngtntgn gtctccgtga ttcattccctc 120
 gcacnggtcc ccntccnaac cnttgcatag gtgttatgtt gtantctccc cagtgcacaa 180
 agattnacac tctctcantg tctganatat gcacgagttc attgtcctgt cnccgtnaac 240
 atcaag 246

<210> 723
 <211> 160
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(160)
 <223> n=A,T,C or G

<400> 723
 cctccggaaa atccaantag agtaantncn ctctaattccg gggnaattgg nggggttnnat 60
 acgtcctcct cccccagnt aggattnana aaaggntctc cagancaaaa nctccaaagt 120
 gnacnanta gccgtncccg ananccaacg cccctacgtc 160

<210> 724
 <211> 156
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(156)
 <223> n=A,T,C or G

<400> 724
 tnanccnata tacaccaaatt tctgattcta aantcccacc caagggaaaa aagttgagaa 60
 gagcctttcc actttttctac taataaaaaa atgcaccagc ccctaccann agtgnggaaa 120
 acctccttag gcccttgnnt ggaacaancg aaaatc 156

<210> 725
 <211> 347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(347)
 <223> n=A,T,C or G

<400> 725
 aganggttnt atncatgctg tactcgcgcg cctgcagtcg aactagtggt atccaaagaa 60
 ttcggcacga gagacggtgc gcgatggacc gagggcccca gccggngagg cgccgcccgc 120
 gagcccgcg ncagacgccc catcagtagc gtccgcaccg ggnagccgcg gntctcgccc 180
 gagccgtggg cgcgcccagag gggcgggctc gcctcccgcg gtccctcgca gctctgccc 240

266

gccccgagccc gcgcccgtcgc cgcgcgcgnc ttgcccgtcgc gnccgcgcgcg nccggnaaac 300
gcgggtcgagg tctggatgng gcanngcccg cncctntcgc tgagcct 347

<210> 726
<211> 162
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(162)
<223> n=A,T,C or G

<400> 726
ttgggtgggt tgggtggggg naaatttncc catttgggtg ggtttggggg ggnaaataact 60
tccccgccttt tnggtnccca aaganacnaa gggggagtc cttnatagag gnagngcgat 120
nntcncaac nacntngact ttgnccatgg ggagnaaggt gg 162

<210> 727
<211> 120
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(120)
<223> n=A,T,C or G

<400> 727
gtgtgggtgg ggaattccat tgtggttggg ggnaaatctc cgcttgtcca aagnacaggg 60
ggggtcnctt anagnnagg gggttcctcc ccaccacttg ncttgnccat tngnagnaag 120

<210> 728
<211> 130
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(130)
<223> n=A,T,C or G

<400> 728
gaccactgc agcgttnaac ttagcttggg ccgagctcgc atccctagtc cgtgtggtgg 60
aattccatgt gtcgagagag gggcaaatac nctccaanac ancncctca tgctcnacac 120
atattcgcat 130

<210> 729
<211> 182
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(182)
<223> n=A,T,C or G

<400> 729

267

```

cngactgctn gcgttttaaac ttaagcnagg taccgaacgg ggatnnacga ctantgatcg 60
gctgggtgct tccagtcgat tanatttgtg aaaaagctga accncngccn gttaaagggg 120
annatgcaaa anatncatcc nnctgccccn taaactgntc tntccnaggg aaaaaangga 180
ag 182

```

```

<210> 730
<211> 678
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n=A,T,C or G

```

```

<400> 730
cactcncact ccggacctag gcnccttcacc actgctctct tctcctcct cctcctontc 60
ctcgggggctg ggggaccttc cccagtgaac atctcacttt ggctgaancc cactcggggc 120
agcctgagtt tggggctctt ggcccttctca cctcctcctg cccctcctt ggcccgcacc 180
aggccaaacc ggggcagccg taccttgagc ttgtgtccgg cctctccctc cccctctgcc 240
acctgggtact cggcatggtt gcccccgga tggcgagagc tccacgtcgg gcagtgagaa 300
gcagaaagta cgctcggccc ctgggggctg ctctcagca cctcggccc ccaccctagc 360
tctggcccc agtgtgggca acttcagcct cagcccaccc tcgcctgtgg ccgcctogcc 420
cgctgtgcc tctcggctta gccccacgtc caactcaagc tggggcactg tcacgggtggg 480
catcttaaag acaccctcac ccaccagcag ctaccacact gcaacctggg ctccaggcaa 540
aaaaagggtc acctggggca nctgaaccct gtacctgctg tgccctctgc tgaanggaat 600
gttatctgaa cctgctgcc tgggggtact gccttcccaa aaccgggtca antccacctg 660
ttggaaggna aatncccc 678

```

```

<210> 731
<211> 135
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(135)
<223> n=A,T,C or G

```

```

<400> 731
gagatccgac gtcacccct tccggcggcc caagacgctg caactcccga ggcngcccaa 60
atatcttttg aagagcgctc ccagcccaac acaatggaat tccaccacac tggnnntagtg 120
gatccgagct aagcc 135

```

```

<210> 732
<211> 660
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(660)
<223> n=A,T,C or G

```

```

<400> 732
gcttggtacc gagctnggat ccctagtaac ggccgccagt gtgctggaat tcggctttct 60
tcaatcagnt nacgagctgc atgggtctgt aacattgtca taattgctgg catagattac 120
tgaaaataaa gaaaaaaaat tgaagctgcc tatcaagttt tggattattc aaaaacttcc 180

```

268

```

tacaagttat tttacttcaa ccatgttatt acaaataatt taatgaatac tttagagact 240
ttaattacaa aaaactgaga tagtaaaagc aagtaataaa agctgaaatt acttagctat 300
ttgataatta cataaattat tatggtccat tcaacttttc tagtgtttag tttatacacc 360
aggaagactt tcctattcta ctaacattta taaagtatgc taacctatta tttaaacgca 420
tocactatta ggattttatg gcctaaaacg tgatacagtt cagtatcttg atgtcaaaac 480
tttttaagca agtagggatt aagttcaagt gaatgtgatt ttctttcttc ccagtagggg 540
cttctgaata actcagnaaa gctcacttcc attatcttac ttataaaaaa aatgctataa 600
gacagaatgg gccgacgtgg nggctccacc tgtatccacc ttgggagcg agnggcgaat 660

```

```

<210> 733
<211> 836
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(836)
<223> n=A,T,C or G

```

```

<400> 733
aattaatgac tttttttccg ccctgccaaag ctagtttgtc taaatataat gtaaagaaat 60
tagctactca ttttctgggc cacgaagggt cctaaaatgg gaagaagtgg agatctgacc 120
ttgtaggttc taaatacact aaactgggag tgccatggat ggctttcagg atgtcctgaa 180
tcctctataa ttgtatacaa aatcgtgagt ttttaaaaaac tgggttagag ctattgggtc 240
ctcagagtct caggcatctt agaccccca aaaggttaag gactactgac ttaaccaatt 300
aggtttgagt ggcattggct ttgaagaaaa gcagaggaaa gatataat ttaattctgg 360
gcaacaaaaa agtggatgtg tgccagcatc tttagagtag atcctotaa aaggatagca 420
ctgcatatga actagtaggt ttttaaccagt gcataat ttag gcgaagtagc tcatttttct 480
gttagaattc ttttttat tgggaatgggc aagcttttac agcttttacc ttgccaatga 540
atacctggaa tttaaaaaat cttgttaggc atattgccca taaagttttt tttcctagat 600
catatattca gtaaataatgt ttgtagcttt atttcaatcc cccaattcat tgaggggtga 660
aacaatttga atggtttgag tgtagaagct aagttatttc tgtagaggct aagggcattt 720
ataccaanat atgttagact tgnngntcct gttaaccatg ctgtanacaa taggaattac 780
tgtatatcca cattttaatt ttaacatctt ctgctttgnt gntgggttga gangga 836

```

```

<210> 734
<211> 694
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(694)
<223> n=A,T,C or G

```

```

<400> 734
nagtnttatt tncactaaac tngnagtgcc ttggatggct ttcaggatgt cctgaatcct 60
ctataattgt atacaaaatc gtgagttttt aaaaactggg ttagagctat tggttcctca 120
gagtctcagg catcttagac ccccaaaaag gttaaggact actgacttaa ccaattaggt 180
ttgagtggca ttggctttga agaaaagcag aggaaagata tattttataa ttctgggcaa 240
caaaaaagtg gatgttgcc agcatcttag agtagaatcc tcttaaaagg atagcactgc 300
atatgaacta gtaggtttta accagtgcac atttaggcga agtagctcat ttttctgtta 360
gaattctttt ttatttgga atgggcaagc ttttacagct tttaccttgc caatgaatac 420
ctggaattta aaaaatcttg ttaggcataat tgcccataaa gtttttttct ctagatcata 480
tattcagtaa atatgtttgt agctttat tcaatcccca attcattgag ggttgaaaca 540
atttgaatgg tttagtgta gaagctaagt tatttctgta gaggctaagg gcatttatac 600
caagatatgt tagacttggt gttcctgtta accattgctg tagacaatag gaattactgt 660
atatccacat ttttaattttt aacatcattc tgtc 694

```

269

<210> 735
<211> 126
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(126)
<223> n=A,T,C or G

<400> 735
ncnttgaaac nggttgacca gacttcaggc ctgtgcgctc aatcgtggag aatctcgtgc 60
cgaattcggc acgagtctct ctctctctct ctctctctct ctctctctct ntctctctct 120
ctctct 126

<210> 736
<211> 165
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(165)
<223> n=A,T,C or G

<400> 736
cagaagcctt taaaccggtt ngaccagact tcaggcctgt gcgctcaatc gtggagaatc 60
tcgtgcogaa ttcggcacga gtctctctct ctctctctct ctctctctct ctctctctct 120
ctctctctct ctctctctct ctctctctct ctctctctct ctctc 165

<210> 737
<211> 125
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(125)
<223> n=A,T,C or G

<400> 737
ggnagcccct ttaaccgttt gtccagactt caggcctgtg cgctcaatcg tggagaatct 60
cgtgccgaat tcggcacgag tctctctctc tctctctctc tctctctctc tctctntctc 120
tctct 125

<210> 738
<211> 137
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(137)
<223> n=A,T,C or G

<400> 738

270

```

ggagnncnctt gancaggatg accgacttca ggccctgtgcg ctcaatcgtg gagaatctcg 60
tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120
tctctctctc tctctctc                                     137

```

```

<210> 739
<211> 970
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(970)
<223> n=A,T,C or G

```

```

<400> 739
aggcctatatt aggtgacact atagaacaag tttgtacaaa aaagcaggct ggtaccgggtc 60
cggaattcgc ggccgcgtcg acggcccttn gtgccactag ntctttcatt cttccccccc 120
atcaatcagt gaacttttta gcctactcaa agctttgctc caatgcatag gatttatgat 180
tgtggggatt tccagataat ataaatattc aacatgaata ttttaaatta aggcatgaga 240
catttttctc aactgagcat agccatgaac ctctcacgtc tgttcctctg tgtcagtttg 300
tancactgaa tacagcagcc ctccataaaag tccaggcagt gcacagggtc tgacatgatg 360
aagtgcagtg ttgctatggt gatatttgag ctggccaaat agtcactggt tgattttacc 420
cagcaggaga tttttgcaaa aatttcctgg gtgagagtga aatcaaactc ctattttgnt 480
tctcctctgc aagctgnagt taagatggat taatgagtag ttttagatta attaactctg 540
aagagaaaaat gggagaaaag tgaggaaagg ttgttggcaga agtcattgct ggaatccttc 600
tgaagggagt actgacttca cttgcaaaga cnagagacta naagacaatg aagttaaact 660
tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaaatt aattctgtca 720
tacgcataatn ggattatgtg gtcattggatt tggttggcact aaccngcctn taatcagnat 780
aagaaaagtg ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgga 840
aaaaatgntn gggggccttg ggtggtggtc tnaaaanacc ccctggggat ntttaaacca 900
aaantgaaga agggaaaaat ntttccccnt nttttntttt tttgccccct tgggattggn 960
ttttntttcc                                             970

```

```

<210> 740
<211> 739
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(739)
<223> n=A,T,C or G

```

```

<400> 740
gntgtcnaaa aagcaggctg gtaccgggtc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccncca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcagtagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
tggccaaata gtcactggtt gattttaccg agcaggagat ttttgcaaaa atttcctggg 420
tgagagtga atcaaaactc tattttggtt ctccctctgca agctgnagt aaanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540
gttggcagaa gtcattgctg gaatccttct gaagggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaactt ggccgtgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaatc ttaattctgn catacgcata ttggattatg tgggcatggt 720
ctttgtttgg cncctaacc                                     739

```


271

<210> 741
 <211> 1171
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1171)
 <223> n=A,T,C or G

<400> 741
 gccttgnggt gacactatag aacatgtttg tacaaaaaag caggctggta ccggtccgga 60
 attcgcggcc gcgtcgacgg cccttnntgc cactagttct ttcattcttc ccccccacatca 120
 atcagtgaac ttttttagcct actcaaagct ttgctccaat gcataggatt tatgattgtg 180
 gggattttcca gataatataa atattcaaca tgaatatattt aaattaaggc atgagacatt 240
 tttcctaact gagcatagcc atgaacctct cacgtctgtt cctctgtgtc agttttagtc 300
 actgaatata gcagccctcc taaaagtcca ggcagtgcac aggtcttgac atgatgaagt 360
 gacgtgttgc tatggtgatt ttgcagctgg ccaaatagtc actggttgat tttaccacagc 420
 aggagatttt tgcaaaaatt tcctgggtga gagtgaatc aaactcctat tttgtttctc 480
 ctctgcaagc tgtagttaag aagggtattaa tggagtactt tttagaatt aaattaacct 540
 cttgaaagaa gaaaaaatgg gggaagaaaa aaagtgggaag ggaaaagggn ttggttttgg 600
 gccnaaaaaa aagttccaan tttnggcntt ggggaaaaat tccccntttt ccttggnaaa 660
 aggggggnaa ggttaancct tgggaacctt tttccnncct tttnggccca aaagggggaa 720
 ccanggggaa agaaccttta ggnaaaggaa acccatttgg gaangggttt naaaacctnt 780
 ngggcccccg ggccctcctc caanaaggga aaaaaaaagg cctggaaaaan gtaccagggt 840
 ttcannggna aaanttaaaa ttcttggcca atancnccat aattgggaat tatggggggg 900
 ccattgggctt ttggttttgg cnccttaacc cgcnttttta attcaaanna aaaaaaagn 960
 gtttggaaaa nnaaaanaaaa aaaattnaan ggncccnaaa aaaaaccctg gaaaaccttt 1020
 ggaaaaaaat tngnnggggg gccnttttgt tggggggggt tnaaaaaacc ccctnggggg 1080
 ttttttaagc ccaaaagggg gggaggggna aaanggtnc cttntttttt ttttngccc 1140
 cccttgggga atggnntant tcanggggcc c 1171

<210> 742
 <211> 739
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(739)
 <223> n=A,T,C or G

<400> 742
 gntgtcnaaa aagcaggctg gtaccggtcc ggaattcgcg gccgcgtcga ogggcccttg 60
 tgccactagt tctttcattc ttccccncca tcaatcagtg aacttttttag cctactcaaa 120
 gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
 acatgaatat tttaaattaa ggcattgagac atttttccta actgagcata gccatgaacc 240
 totcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcttaaaagt 300
 ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
 tggccaaata gtcactggtt gattttaccc agcaggagat ttttgcaaaa atttcctggg 420
 tgagagtga atcaaaactcc tattttgttt ctcctctgca agctgnagtt aanatggatt 480
 aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540
 gttggcagaa gtcattgctg gaatccttct gaaggagta ctgacttcac ttgcaaagac 600
 aagagactan aagacaatga agttaaaact ggcctgtctn tcatatgata gatgcttgag 660
 agtacaggnt cagggaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
 ctttgtttgg cncctaacc 739

272

<210> 743
<211> 610
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(610)
<223> n=A,T,C or G

<400> 743
ctgtccttat ttcttttagca aaaatttccc aagagaagaa ttgctgggat aatgcacatt 60
taaatttttg atagacattc ccaaataatta tacctgtttt tgagaccttt aattcctggt 120
gtcaaatttg cctatatatg gagtaataaa cagcatttaa agaaatgagg actaaaaaaaa 180
gattatatat aacccaacat aaaggcaacc tcttaggcgt tgacagaaac tgacaacttt 240
ttatctgtgg gtgcgatcca ttataagtaa cctgagcacc ttattttttc tttttaaaact 300
ctaggttagga taccggaggt ccacaaattt ttcataagaa atattttttc tctgccctat 360
gagattttta aaaatattat actgcttcaa ttgcatcaaa agaaatggac cctaatatct 420
atgatgaagg atttggagtt agaagacctg agtttcaatt ttggcatggc tgtttgtcta 480
gctctgngat cttggacagg tcaattgact tggcttaatc ttctcatcca tttagnngag 540
acagcaccac tattcacagg actattgnon gaattaccag acaatagcat agngnaaaat 600
ataangcctt 610

<210> 744
<211> 127
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(127)
<223> n=A,T,C or G

<400> 744
ttnacctccc tggaccgggc ccccttccc cgggcggntc ccccgggctg caggaattct 60
gcacgagggg gagagagttn gagagagaga gagagagaga gagagagaga gagananaga 120
gagagag 127

<210> 745
<211> 458
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(458)
<223> n=A,T,C or G

<400> 745
gatatcccg gattcgcggc cgcgtogacg tggcctctag tttgtcctgg tccaaagcag 60
ggaagctggg ctacgtcctg ccaggtcag ccttaggtta agggctgcct gggggaggga 120
acttcctggg ccttcgggtc tctgtgcact ggggtggctc ctgtggcca gaatgccctg 180
gagaagggtc ctactggaag cgaaggtgca gggcagcagg gcctgaggcg caggagctgg 240
tgagggtccc cagcacaggc cgccgcccc gtcacatcac tgctgatggg ggggggactt 300
ggggagtttc ccccgagaat gggaggtctc acagtccccg tgctgcaatg ctgtcgggtc 360
actgnngcng caatgtgctc atggncactt gctttttctc tgtggccccg gccgatttat 420
ccagcanngc acccctcttc tncctctccg anaaagcc 458

273

<210> 746
 <211> 893
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(893)
 <223> n=A,T,C or G

<400> 746
 aagcaggctg gtaccgggtcc ggaatttcgcg gccgcgtcga cgtgggggagt tagctctctg 60
 gaccccgctca tagagtaagt catcgataga gcatttgctt gatgggggact tccagaaggc 120
 canngaaaagt cctgcccgaact tccctggggaa gcccatccgc acgtgggggtg aggggtcccca 180
 natggaagca gctgtgtatg caggggagggg gcagaggctg ctgccaatgg gcatgtccct 240
 tacctgaaag ggccacctct ccagggtgaca tgtcctgggg gagccggggc cgtctgctcc 300
 ggccagaggc gtcagctca ggccacacca ggccaggcac ctcccaacct ggacagggtg 360
 ggaccaaggt ggcttgggac aaaactctct gtgtttgcca agcaccacaat cggacacaga 420
 gagtcaacca caccacagtc acatgggtgtc cacacngcag gggtaagga ggcccgggcc 480
 ctcccctca gacgtccctg ggccctctggg agtcagcaag gacgaggacg gcattgccct 540
 tcgagacagg aaggggagtga cctcctcccg gcggcatcca ggctcngctt ctccggagag 600
 gagagggggc tacttgctgg ataaancggc cggggccaca gagaaaaagc aaggtgacca 660
 tgagcacctt gcaaacacag tgcacccacc agcatttnag caccnnggac tgtgaagacc 720
 tcccatttct tcggggggaa acncgcccac ngttcccccc accntcacta gtgnattgtg 780
 acctgggggn cggggccgacc cctgtngctt ggggnagccc tccnccaggt tttctnnggc 840
 ngcccnttaa nggnccctng nttggccctt tggcncctt tncgcttttc cca 893

<210> 747
 <211> 738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(738)
 <223> n=A,T,C or G

<400> 747
 gatatcccgg gaatttcgagg ccgcgtcnac gaagcacaga cctgngccct gctctcatgg 60
 ggcagactgc catttgatcat tnattactga aggaaggga tcctcagttt gcttgtggac 120
 atttcaaatt tgagggtgaga gttggataag taagaataaa gctgctcttc aaagagatga 180
 atatagaaaa agaaacaaga tacagncttg gcagtaaggc tgggaggaag gggaaaagg 240
 aataaagaat gaaagagtga gaaatgtgag caggagctga acacagaaaa gttagcngac 300
 agaagcanaa ggagggaaga agggaggagg gtccctttca cagaggctca cgaggatgct 360
 ttatgngtgc catgcagtc atgttcagga tgtctgctt ttanctctct acttttctaa 420
 tanaaatttg gatacttact gatcctacat atgtaacagg gagagaagg gaatttcaaa 480
 gcantaaatt gaaaaattgt tcacaatttc attttttaa aaaaggagc taacagaaga 540
 agaggttaat gtggttaatta taggatgnct cttgcgacac atgaatgnat ctggtatcat 600
 ctgagtgagg ggggagctgt cttcctgacc caaaaggatc ctttcgttan ccngnactta 660
 ngtcccaaaa cctcaccacc ttggagaaat natttccttt tgggggtntc attaaancct 720
 tttggncccc gcaaaaagc 738

<210> 748
 <211> 647
 <212> DNA
 <213> Homo sapiens

<220>

274

<221> misc_feature

<222> (1)...(647)

<223> n=A,T,C or G

<400> 748

```

ctntgtggcg gtggctgtct catttgggtg gacttttttg gtcgtaggaa cctggatatng 60
aggtcgagag taagacgggc tattagtagt cgcacggag ttatttgtga aaacctggtt 120
agggcctctg tctccgctgc gctcgctaa attggtagg ctgcacttgg aaacacggtt 180
ctaacacgcg ttgttagcgc ccttgctagc atgtgaagga cactggccct accaagaaag 240
attcgagtcg ctcttcccg tatcgttcac ggaggcgata tttactcttc ttactacggt 300
tacttcgaga ttgtctgtga agttaagac tactaaaaag agtattaagc ctatcgggaa 360
ttagctagat cgacacgcta aaaccaaggg caatcggcgg aaatatagag gcaccaataa 420
tagggcctac agaaggcccg agggttagac tcacgtttta taccggccac gggagaaata 480
aaaagataaa gtatacatcg tttagcggtc ctoggaagcc ttcggcttta atgccaagga 540
gtcgggaagca tcgtcggcga gtaataaact ccacgcgcc gagactatct acgacgcctt 600
ccttaanatc cgtaaattac tcccggaaa agtatttagg cggtctt 647

```

<210> 749

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(642)

<223> n=A,T,C or G

<400> 749

```

ctntgtggcg gtgntgtct catttgggtg gacttttttg gtcgtaggaa cctggatatgc 60
aggtccgcgg agcgtgggct ctgcgtcgtg atgttggggg ttggtgtggt gccggttgtt 120
tttggttctg ttgagcgtag tgtgtttgaa ggtagcgtt cgtgtcttgc ttgtggtttg 180
gtgttttagg cgggtgggga ggtgtgtgtg tagctgttgt atgtcatatt gttggtgttg 240
ctgccctgtg ctgtttgtcc ttggttattg tgggtgttac cccgcctgtg tggaagtgtt 300
gtggcagggc gggaatttaa gtgggagagt tgtgggacct gtggttgttg ttacgttgc 360
gcttttgtcg tgggcggtgg cggcgcgtct gataattaga attggatacg gagtgtataa 420
tacttctagt aaatggggac ctagtgcctg acttcccgga atagggatct atgcgaagtc 480
cttaggatag tctttgataa gtttaacgcc caccacccta aaattatata cgattagacg 540
cataacgact cctccaggaa agataaagaa tctcacatat agaacgggac ccatacacg 600
tcggatagga aacaagagaa ctaattttng ttaaaaagac tt 642

```

<210> 750

<211> 639

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(639)

<223> n=A,T,C or G

<400> 750

```

tttgtggcgg tgggtgtctc tttgggtgga tttttgggtc gtaggtaacc tggatatngag 60
gtatagatgc cgattggtcc cgacgagcgt caccgataaat tcggtagttt cgcctttttt 120
agaaggcgt agtactcgga acttcacttc atctcggtag ttacttttgg cgtatatagc 180
cttctccctc gaagactagc cgtcacatto gttccctagg aatcgtttct gccctaaga 240
atccgagagc gagatcccg aactagagga accttagaag agtcgtatct ccacaaggac 300
cccacagtca ttccgggaaa atccctagga ccatcgggtt aggattcccc cggaaccgg 360
agcaaagctc atgatttccc acaccgcgag agcgcctata accctatccc atttcttcgg 420

```

275

```

gttatcgagg atattacgat caagccgaga gaaccgctag aaccgctttc ttcgctttct 480
cacggaacct ataagtagaa agagaaaactc aggtcttaag gggcgcttc ggctaacgaa 540
acttctactt acgaagagag tatctagaca ttaagtcata aaaatccact acgcacctcg 600
tgtacgatat catcggggagc ggttcataga cggtgtccg 639

```

```

<210> 751
<211> 637
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(637)
<223> n=A,T,C or G

```

```

<400> 751
cttttgtggc ggnggtgtct catttgggtg gatttttggg tcgtaggnaa cctgggtatng 60
aggcagctct gagccccccc cccccccccc cccccnccc ccccccccta ggnggttggg 120
aanacggttg atacctaaat cgagtnggtt cattaaaagt agttgattac nccctaaaaat 180
aanaanaggg cttcgctcggg anaaatcggg aagganaagt ctttntggca tcataanaat 240
actggctcgg gtcctaanat nttaagng gtcnccgagg gtnttcatac cgataanaaa 300
cgttttccta tcggcaacgg gcttaacctga gggnggactt ctncgngnc ggngattnan 360
acgaanacgt agaggattnc cgntacttnt tganatcacn cgtatcatac ttgtaagcat 420
aatntcctg aaaagtgtta taanaatacg cncgcataatt cgctttttcg tcctagggat 480
gcttaaattg cgatactgct atagcgggtg agcgttggtt ctcgagnaana aaagcgtgtc 540
ctaatacgct taaggnttta agnccgttgg tttaaaaata nccttagaaa cctcgaggcg 600
gatactggtt tntttttaac gaaacaaagc accccnn 637

```

```

<210> 752
<211> 644
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(644)
<223> n=A,T,C or G

```

```

<400> 752
tntgtggcgg tgggtgctcat ttgggtggat ttttgggtcg taggaacctg gtatgaggtc 60
ttgcgagttg ttggtgtgtc ctgtcgttcg gtggttccct tttgagttga gtttgcctt 120
tgaggttggt agctgctgtt cgtttgtgtt cgtgtagtgc tttgggttga gagggttatg 180
gtggtgggta cgggtgtattg tcgcccggtg tcgcggggtt ggggtggtcg tcggttttgt 240
ggttcatagt agtcttctgc gttcgggtgg gcggttttgg gtgagtagtt tcgttcttgg 300
atgtcccat gaccggccat aatctaagta agggttagta gaaacctct cccgatagac 360
acaaccgtcg tccactaaag acctcgctc tgatttttaa aaggaccga aaaacatccc 420
ttcaacggaa aaaacggaaa aaaagtcagc gaattcaaag aagccacggg agagaaaaaa 480
gaactaaagt tagtccgtca ttatatgtc cctcggagga ggaagcggcg gtggcgga 540
atgaggcggt aagaaagac acctctatcg gcggttang ccctaaaagg gcgatacctt 600
acgggatgat aaggacccta ggacgcctcc ttctcggat gtcc 644

```

```

<210> 753
<211> 635
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

276

<222> (1)...(635)

<223> n=A,T,C or G

<400> 753

```

ctttgtggcg gtggtgctca tttgggtgga tttttgggtc gtaggaacct ggtatgaggg 60
aatcagctcg accccccccc cccccccct ccgaagcaga gcccaaccca aagtcaccg 120
actacccgag taaactctcg gagggtagaa taagaaggag taggtcctag ccaatagaag 180
tagttccgag ccgttaggac agcggacgga acattnaaga aagagcctat attagggagg 240
aagtaacgtt cctctttcgg agctcttttaa ggggtagtcc cagaacaagg gaagaggacc 300
cgtcggctat tgcccgtcga tacgggctct cacgngagc ctaggttcga ggatagggcc 360
gctcgtaaaa ttatacgggt tccgagaaac gcttccgtag accgggtcct aaatcgctcg 420
gagtattngg agagggatcc ttccgacctt agggacagag agaggagaac ggaggttaca 480
ggaggagaac gtntcctcnc tagttttctt tangtcgaaa aatttcttac cgataggggtt 540
cctagggtcg gngaatttac ggttcgaaaa acggtagtnc ctaanggntg ntattngggg 600
tagtatcggg tcgtttacaa ntcgtccgtc ttntg 635

```

<210> 754

<211> 721

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(721)

<223> n=A,T,C or G

<400> 754

```

accggattng ttntctgagcg cgtgactgct aataaaaaag atggantgcc atcttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattgtt ctgcnnggct ataaaatttg 120
gcttgtgagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaaggga gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gttttgtagg ctttttttcc cttctctcagc ttctccctgc ttctcagaan 300
atggagtgtg gatgcctgca acttaocaaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agaggagaa taaggagttc tccccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc ttgtctctct ccccaccctc ttcccagct ctctctctgt 540
ctctctcttg ntcccctgac ctttttttct tcccantgca tacttttttn tttccctttt 600
ttaatcttct atantcttaa nctaccaaan gggccctcnt gannaatttn tcaccctga 660
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721

```

<210> 755

<211> 721

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(721)

<223> n=A,T,C or G

<400> 755

```

accggattng ttntctgagcg cgtgactgct aataaaaaag atggantgcc atcttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattgtt ctgcnnggct ataaaatttg 120
gcttgtgagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaaggga gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gttttgtagg ctttttttcc cttctctcagc ttctccctgc ttctcagaan 300
atggagtgtg gatgcctgca acttaocaaa tttatctatg aatcagattc cagtgggaga 360

```

277

```

ccccataagc agagggagaa taaggagttc tccccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc tttgcttctt ccccaccctc tttcccagct ctctctctgt 540
ctctctcttg ntcccctgac ccttttttct tcccantgca tacttttttn tttccctttt 600
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcacccctga 660
ataggggatt ctntangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721

```

<210> 756

<211> 873

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(873)

<223> n=A,T,C or G

<400> 756

```

ggaagaatac agtaagtttg caaattaaaa tttctctatt tttctgttat ttattcattt 60
ggaaactgtc agcctgtctc tttcactttg ggcaagtga agcaaagacg tccagtccta 120
tcagcaatta ggctgaaagt caacgccaaag ctggcgggca agggctgggc tgagtagagg 180
ttccctaggc aggcaagaga gagactocca ctcgatactc ccagctcggc aactgcctga 240
atgccaatga gcactcatta taaccgcgcc tattttatag gatttaattt tacacttcag 300
gcttaatcag tctgaaagtt aaactgacag tggttaagtta cggaatcaat gacatttagg 360
ctttatgact ttgtagctga atatctatgg gctatatttc cattctaaca gtgatatcct 420
gttcagaaat ctcatctctt ggtgatggca ctttctagtg gagcagtcac ggtaacagtc 480
cacacccatt accatgtggg tgctttacag catactgacg gaaggactga ggagccaccg 540
gagcaggagt tcctctcagg gaggacgctg acacttccac agctgcctan gtatgggcac 600
ctgatgccaa cgaanaaccc aaagcgctct cccttccaga tggaaagctgc cccacactgg 660
gctgacagca tctggagctg ctctggctca aatcccggaa tcgcacancct cctanccggg 720
gcgtttanag atcctcnggg ccagctaccg accacttttg acaagggnct taggagcgat 780
aactagnctg gcgcgttaca cncggatgga acgtcttgga cttgagacct cttgggggan 840
atggcncccc caaataantt gggaaaantn ggg 873

```

<210> 757

<211> 782

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(782)

<223> n=A,T,C or G

<400> 757

```

ggcccctcga gggatactct agagcggccg ccgactagt agctcgtcga cgatatcccg 60
ggatttgaga ccaggagaca gctccagatg ctgtcagccc agtgctgggg gcaggcttcc 120
atctgtgaag tggagaggcg ctttgggctt cttcgttggc atcagggtgcc catacctagg 180
gcagctgtgg aagtgtcagc gtctcctctg agaggaaact ctgctccggg ggctcctcag 240
tccttccgct agtatgctgt aaagcaccca catggtaatg ggtgnggact ggtaccatga 300
ctgntccctt aaaaggtggc cttccconaag aaaggagaat tcttggacna gggatttcac 360
ttgnttagaa atgggaaaaa ttaccattta gaattttcgn ttccaaggcn tnaagnccta 420
aaaggccttt gattcccga a ctttaaccct gggcagttaa ctttcaaacc gggataaacc 480
ctgangggga aaatnaaatc ctttaaaaaa ggggggggtt naaggaggggc tctttggctt 540
tcaggcantt gccaacctgg gaaattcana ggggaagtnt ttttttttgc ctgcctaggg 600
aacctttact taaacnaacc cttgnccccc catttgggt tgactttcan cctaattgct 660
gaaaggaccg ggccgntttt gntttccttt gncccaaagg naaanaaacg ggtgccantt 720

```

278

```

cccangggat tanttcccga aaatttggnn aatttttntt tгнаactttt tgggtttttt 780
cc                                                    782

```

```

<210> 758
<211> 647
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n=A,T,C or G

```

```

<400> 758
ntttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
gggaagagcg ccgtcgggtcc gaggtagta tagtcttcgc gccttctcgg 120
gcggcggggc tattctctcc aaaggcagag gtccctagtc gacctcgctc ccctagggtta 180
ggaacagccg tcgaatatatt taggttcgtc gaggttttct tccgagctct acgcctaagt 240
agctccgcga gcaaagtatc ggtcattttc ccctatccat cactccccta agtacgcctc 300
attattccgg aaggcaagag gccagcattc ctcccttagag tagagggtag gtacctccgt 360
cgcggtgcgc gaaagggcag agcttcgtgt cttccctccg cagcagctta acggtctacg 420
taggcgttct cgatcttttc acgggaatcg ggggtccggga gggcggcgga aaacgtcgac 480
gtctcgggtca ccgtcaccgc ccgaacaac tagcggcttt ccgctttcaa ctgaggaacc 540
ccgcacccct cattagcgct tacgaaatcg gggangtgat tgcgcccaatt cgttagcctt 600
cgataattat tctctattag cgttcctatc tcgcgctttc gatttat 647

```

```

<210> 759
<211> 657
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(657)
<223> n=A,T,C or G

```

```

<400> 759
ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
gggctctata gaaagcctct tgtcttttaga tacgggcttt ctggtccttc gttctggaag 120
tgtagtagta ggtactgcgg gaaggcgaag agtcctttca aggacgattt acttaagttg 180
gcttattcta tagttccttc gggacataag gtcgggtacga tctatactgc gtgggaagct 240
gataggttgg gacttaaggc gaataagaag gaggcggcgg aggtcgcgat taccgcagag 300
atattattta cggcggccgc gggtaaccgc ggtcatgcgg aaattttctg aggttcttgg 360
attcctaaga tcgctcccgt cgagtatact agcgacgaac gtaagagtgc cctcacaaga 420
accggtacaa actcaagaag aagttcccat taagcatcgt aagaaacggt aggacgagga 480
cggtagaag taatcggaga aaggatccta gtngttacga agaagcatcg tttagctact 540
ttgcgctacc gtttatattt agacgtgttc cgtccttctc cgtgtttana aaaaagggtt 600
attccgacgg gagacttagg cgaatggagg gttccgcggt tganaatcgg ancgggg 657

```

```

<210> 760
<211> 644
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(644)
<223> n=A,T,C or G

```


279

```

<400> 760
ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatgna 60
ggaaaagaag taagcctcga agcctatctc cgaccgtatt tatttcgcag aagacggaac 120
tacggacgtc gttaaccccc agtagcccc gtaagaaagg actaaagcga atggaaaagt 180
cgggaattcc ggcgaggagg cggcgattac tgaaaggagt aagagtaaga ctattgcat 240
acttgaggcg ttccctctta aaaggcaccg gaaacactct attaaaaaac acccgaagaa 300
gaacaactca tgcgatcggc cgtgtgcagc cgtcaatagt aaagagagcc atgaaccatg 360
ccatccttag accaattagg atgaagaaga ggaggaagat gaggaccaa ccctaccac 420
tcggaacc ccgcacgagc ctccgaacaa aatccgggaa ttaaacggc ggccacttc 480
cgactctcg tagcgcgac cgaatagaaa accggaaact acagctaaag ggtcctttcc 540
ggcctgttat ctaccaccc gcaatccgat cctccccccc cctcgtccaa aaaccctaac 600
ctctgcggca acattagagc agaaggagag ggcgatccct tgan 644

```

```

<210> 761
<211> 647
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n=A,T,C or G

```

```

<400> 761
ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
ggcgggtact ctctgggata atcggtataa gtgttgtaaa attgggggta agagaaagt 120
tcattataag aagtgggaag acgagccggg gtgttttagtc gttaatatta agaccggttt 180
ttgttgtagt tatatagctt gcgcgtgggg aggcaataag aaacattgct tttcgaggcc 240
ggatgcgggg aaccctcttc ggggtctaga gcgcgcgcat tgcaaaataa ggactactga 300
cgccgctcat aacgtactca acaatgagtc ggccgtgcat aagatttcgg cgaagaaccg 360
tactgcgtct actgatagta tattgcattg atagcggcat gagctttatc acgtgtcgtt 420
ttcgggttgt aagaaggag ttaagtcgat cttcgaggaa gaagagacc caaataaaaa 480
atgactcaaa aaaacctaga agaaacacga cgaaaggaaa aagaacgtta aaactagtag 540
ctcttcggan gagtagcctt agtagggtaa gtcctccgtg cgtactgtcc taagggtttg 600
atagcgcggt tgaatagacg gtcacgcgctc agaaggtaaa aanccgg 647

```

```

<210> 762
<211> 628
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(628)
<223> n=A,T,C or G

```

```

<400> 762
cattgtgttg gggtcactga gccactttt ttccagattt tttgtaaaat tgtttcgcat 60
tgtgttccct ttattcgctt gtattaatat ttgcgtagt gattaaacaa atacttggtg 120
ttgactgtca gtccttagagg actgactaga agtagttttc atttgggct caggaaatac 180
ctactttata tttctagcta attaggaaag tcattttttca gttagggttg tgttttggtt 240
caggcactcg ctagctagat gacctaacat gctacttaat ttctgagtgt ttgtgtccat 300
coctgtagga ttgttgcggt gttaaatgaa attgtgtata tttgtaaagc atttacctca 360
gtgcccagac tgtgacagag tagattatta ggcttgctct tatttctgtg attaaattta 420
gtgtcagatt agcaacctat agctacttct aaagctgctg ctgctttctt tgtttagggt 480
taggaagaaa catgctggac agttttgcaa atgagagtta catgatgtgg cttgtgggaa 540
cattctaact tggaacttgc ccatttccag gactttngng ttcanagatt tttggggata 600

```

280

gatgtaagggt ttaaaaaaaaa cngaaaaac

628

<210> 763

<211> 147

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(147)

<223> n=A,T,C or G

<400> 763

cattgtgttg gggcagagat aaataattcc tctgaaaagt gttttattgg aatttcaaatt 60
gaaaagctaa ctggataact tacagcatgt ttctgccaat aatctcttan aacaggcctc 120
ttttttttat gcacaccacc ttcnnggc 147

<210> 764

<211> 146

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(146)

<223> n=A,T,C or G

<400> 764

cattgtgttg ggtatgtttt ttgaaggcag gtggacagga tttgctgatg ggtaaattggc 60
agagttaggg ggactgttag aacagagaaa.ganatcatgg gggtgggttt gagtctgatg 120
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<210> 765

<211> 129

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)...(129)

<223> n=A,T,C or G

<400> 765

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nagaggcgg 129

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<212> DNA

<213> Homo sapiens

<220>

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<222> (1)...(175)

<223> n=A,T,C or G

<400> 766

281

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acattctgtg ngtgatgagg tgtatatctg anganctcta tcnccanagt actct 175

```

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<210> 767
<211> 602
<212> DNA
<213> Homo sapiens

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<220>
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<223> n=A,T,C or G

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<400> 767
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aatgagtgag agtacaaaagt tcaagccctg ttgaggggtct gcattaaaact ctcagaagta 240
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gagctccagt actcagaaaa gcatctcagc aggtactcaa cagatcctca ggggcttggg 420
ggcccagcac tggcagtgag ggcatgaaag acataaaagg gcactacctg tgggtattttt 480
ctgtttctcca aggaggaagt agcaaaaatt aggaogctgg aatatcctat gttgtagcaa 540
tcccagaaca actgatgctc aacaaatacc acacaaaaca aattttttta aatttaatat 600
ta 602

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<210> 768
<211> 671
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(671)
<223> n=A,T,C or G

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<400> 768
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ttggggccag gaaaagcagc tggagttatt cacttagtac catTTTTtaca tactaacttt 180
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taactgaagg gttaccagtt actgattcca caatcttctc tgtaaaanatt ttctgcctat 360
tatgcagact gggcggtctt aaanntggta aaactatnaa ataccctac aatattttta 420
nggggccccn ttatnaagct tttcaggcct tcccccttcc atagcattgg tgggatacaa 480
gaaaccttta aacagcaacn agctatcnag gcccaaaagg aaagtaattn tgattttttta 540
nagattccgn aacgaaaaaa tggctgggtt caaatacnac cttcttttta aaatggnttc 600
cttattaaac nttttttttt tttaatttta ccccatggtc ntgatnttng ngcttccgcc 660
canaaaatng n 671

```

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<210> 769
<211> 877
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature

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282

<222> (1)...(877)
 <223> n=A,T,C or G

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 ggtttgttct tcacttggct aacccctott ttacttaagc acaccttgaa cattccctcc 180
 ttcccatttt ccccgacng cccctaattg acatacttct gaataacaca ggtgggtattc 240
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 aggattccca ccaaggcctc anggccagg tccanggacc atgtctgttg tgacaactgg 720
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<210> 770
 <211> 874
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(874)
 <223> n=A,T,C or G

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 ccgatgagta ggtaacagta ttttactgat aggtaatcta aagaaggagg ctaaaataaat 180
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 tgttcctatg tcatcaaat atacttaact taaaaagtat ttgtctttat tattttttaa 360
 aaaacacagg gaagtatttc tgatcagggg cagtattggg tctgaaagac aagccagtgt 420
 ttttgagggt ttctcccttg ccagtttttc tatgctgggt tattcaagtc ctaagaattg 480
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 aaatttcata caagtttgga gtgctctgaa aacatagcca aaatgttcgc agggctctacc 600
 cctctcgtgt gtcccttttt tttagctatt tcagaagcac actgggtgaa tattttacga 660
 aatgagtttc ttccccttac ctctgcatcc tctaagaaaa aatcattgnt gttttatgaa 720
 natgaanatc ctgctatttc atatcttgat tggagctgct taattaaatg accatttttna 780
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<210> 771
 <211> 156
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(156)
 <223> n=A,T,C or G

<400> 771

283

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<210> 772

<211> 586

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(586)

<223> n=A,T,C or G

<400> 772

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tccagatatg aaacttaccc ccagctatgg tcttctatct gttatttaat ttctaggcca 180
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gcttattgag caggtattgt aggctaaaca attctanact ttaaggggac acagnttgca 420
aaacaaaatc ctgccttgna tggatactta tgnnatggng ggatacagac aatcaacata 480
atgangngca tcatatataa tggttagnan aatgataagg gnttttgga aaaaaatgca 540
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<210> 773

<211> 2983

<212> DNA

<213> Homo sapiens

<400> 773

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<210> 774

<211> 3064

<212> DNA

<213> Homo sapiens

<400> 774

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285

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<210> 775

<211> 684

<212> PRT

<213> Homo sapiens

<400> 775

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                    20                      25                      30
Ser Pro Val Phe Arg Arg Gly Gln Val Phe His Leu Arg Leu Val Leu
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Asn Gln Pro Leu Gln Ser Tyr His Gln Leu Lys Leu Glu Phe Ser Thr
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Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro
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Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu
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Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys
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Asp Met Val Phe Met Pro Asp Glu Asp Glu Arg Lys Glu Tyr Ile Leu
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Asn Asp Thr Gly Cys His Tyr Val Gly Ala Ala Arg Ser Ile Lys Cys
                    165                     170                     175
Lys Pro Trp Asn Phe Gly Gln Phe Glu Lys Asn Val Leu Asp Cys Cys
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Ile Ser Leu Leu Thr Glu Ser Ser Leu Lys Pro Thr Asp Arg Arg Asp

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Gln	Leu	Tyr	Thr	Gly	Lys	Lys	Met	Ala	Lys	Leu	Cys	Asp	Leu	Asn	Lys
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290

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Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
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Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
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Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser
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Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
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His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys
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Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile
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Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
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Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp
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294

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Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
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295

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<213> Homo sapiens

<400> 812
Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser
 5 10 15

<210> 813
<211> 15
<212> PRT
<213> Homo sapiens

<400> 813
Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
 5 10 15

<210> 814
<211> 15
<212> PRT
<213> Homo sapiens

<400> 814

302

Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu
 5 10 15

<210> 815
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 815
 ggaccagcat atgaggaaca gaaggaatga cactc 35

<210> 816
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 816
 ccgctcgagt ccacccaag cttcacagg 29

<210> 817
 <211> 1959
 <212> DNA
 <213> Homo sapiens

<400> 817
 atgaggaaca gaaggaatga cactctggac agcaccggga ccctgtactc cagcgcgtct 60
 cggagcacag acttgtctta cagtgaagc gacttggtga attttattca agcaaatttt 120
 aagaaacgag aatgtgtctt ctttaacaaa gattccaagg ccacggagaa tgtgtgcaag 180
 tgtggctatg ccagagcca gcacatggaa ggcaccaga tcaaccaaag tgagaaatgg 240
 aactacaaga aacacaccaa ggaatttcct accgacgcct ttggggatat tcagtttgag 300
 aactgggga agaaaggaa gtatatacgt ctgtcctgcy acacggagcg ggaaatcctt 360
 tacgagctgc tgaccagca ctggcacctg aaaacaccca acctggtcat ttctgtgacc 420
 gggggcgcca agaacttcgc cctgaagccg cgcattgcga agatcttcag ccggctcatc 480
 tacatcgcg agtccaaagg tgcttggatt ctacggggag gcacccatta tggcctgatg 540
 aagtacatcg gggaggtggt gagagataac accatcagca ggagttcaga ggagaatatt 600
 gtggccattg gcatagcagc ttggggcatg gtctccaacc gggacaccct catcaggaat 660
 tgcatgctg agggctatct tttagoccag taccttatgg atgacttoac aagagatcca 720
 ctgtatatcc tggacaacaa ccacacacat ttgtctgctc tggacaatgg ctgtcatgga 780
 catcccactg tcgaagcaaa gctccggaat cagctagaga agtatatctc tgagcgcact 840
 attcaagatt ccaactatgg tggcaagatc ccatttgtgt gttttgocca aggaggtgga 900
 aaagagactt tgaaagccat caatacctcc atcaaaaata aaattccttg tgtggtggtg 960
 gaaggctcgg gccagatcgc tgatgtgatc gctagcctgg tggaggtgga ggatgccctg 1020
 acatcttctg ccgtcaagga gaagctggtg cgctttttac cccgcacggg gtcccggctg 1080
 cctgaggagg agactgagag ttggatcaaa tggctcaaag aaattctcga atgttctcac 1140
 ctattaacag ttattaaaat ggaagaagct ggggatgaaa ttgtgagcaa tgccatctcc 1200
 tacgctctat acaaagcctt cagcaccagt gagcaagaca aggataactg gaatgggcag 1260
 ctgaagcttc tgctggagtg gaaccagctg gacttagcca atgatgagat ttccaccaat 1320
 gaccgccgat gggagtctgc tgaccttcaa gaagtcatgt ttacggctct cataaaggac 1380
 agacccaagt ttgtccgcct ctttctggag aatggcttga acctacggaa gtttctcacc 1440
 catgatgtcc tcactgaact cttctccaac cacttcagca cgcttgtgta ccggaatctg 1500

303

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cagatcgcca agaattccta taatgatgcc ctccctcacgt ttgtctggaa actgggttgcg 1560
aacttccgaa gaggtctccg gaaggaagac agaaatggcc gggacgagat ggacatagaa 1620
ctccacgacg tgtctcctat tactcggcac cccctgcaag ctctcttcat ctggggccatt 1680
cttcagaata agaaggaact ctccaaagtc atttgggagc agaccagggg ctgcactctg 1740
gcagccctgg gagccagcaa gcttctgaag actctggcca aagtgaagaa cgacatcaat 1800
gctgctgggg agtccgagga gctggctaata gagtacgaga cccgggctgt tgagctgttc 1860
actgagtgtt acagcagcga tgaagacttg gcagaacagc tgctggtcta ttctgtgaa 1920
gcttgggggtg gactcgagca ccaccaccac caccactga 1959

```

<210> 818

<211> 652

<212> PRT

<213> Homo sapiens

<400> 818

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Met Arg Asn Arg Arg Asn Asp Thr Leu Asp Ser Thr Arg Thr Leu Tyr
                    5              10              15
Ser Ser Ala Ser Arg Ser Thr Asp Leu Ser Tyr Ser Glu Ser Asp Leu
                20              25              30
Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe
                35              40              45
Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
                50              55              60
Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
                65              70              75              80
Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
                85              90              95
Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser
                100             105             110
Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
                115             120             125
His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys
                130             135             140
Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile
                145             150             155             160
Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
                165             170             175
Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile
                180             185             190
Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp
                195             200             205
Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu
                210             215             220
Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro
                225             230             235             240
Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn
                245             250             255
Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu
                260             265             270
Glu Lys Tyr Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly
                275             280             285
Lys Ile Pro Ile Val Cys Phe Ala Gln Gly Gly Gly Lys Glu Thr Leu
                290             295             300
Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val
                305             310             315             320
Glu Gly Ser Gly Gln Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val
                325             330             335
Glu Asp Ala Leu Thr Ser Ser Ala Val Lys Glu Lys Leu Val Arg Phe

```

304

```

      340      345      350
Leu Pro Arg Thr Val Ser Arg Leu Pro Glu Glu Glu Thr Glu Ser Trp
      355      360      365
Ile Lys Trp Leu Lys Glu Ile Leu Glu Cys Ser His Leu Leu Thr Val
      370      375      380
Ile Lys Met Glu Glu Ala Gly Asp Glu Ile Val Ser Asn Ala Ile Ser
385      390      395      400
Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn
      405      410      415
Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu
      420      425      430
Ala Asn Asp Glu Ile Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp
      435      440      445
Leu Gln Glu Val Met Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe
      450      455      460
Val Arg Leu Phe Leu Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr
465      470      475      480
His Asp Val Leu Thr Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val
      485      490      495
Tyr Arg Asn Leu Gln Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu
      500      505      510
Thr Phe Val Trp Lys Leu Val Ala Asn Phe Arg Arg Gly Phe Arg Lys
      515      520      525
Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val
      530      535      540
Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile
545      550      555      560
Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg
      565      570      575
Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu
      580      585      590
Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu
      595      600      605
Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr
      610      615      620
Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu
625      630      635      640
Ala Trp Gly Gly Leu Glu His His His His His
      645      650

```

<210> 819

<211> 132

<212> PRT

<213> Homo sapien

<400> 819

```

Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
1      5      10      15
Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
      20      25      30
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
      35      40      45
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
      50      55      60
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
65      70      75      80
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala

```

305

		85						90					95
Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser	Val
		100						105					110
Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr	Leu
		115					120					125	Ala
Gly	Pro	Pro	Ala										Glu
		130											

<210> 820
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 820
 gggaattca tgatccggga gaaatttgcc cactgc 36

<210> 821
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 821
 gggtcagat caggagtttg agaccagcct ggc 33

<210> 822
 <211> 675
 <212> DNA
 <213> Homo sapiens

<400> 822
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60
 cagggatctg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
 accgttcata tcgggcctac cgccttcctc ggcttggttg ttgtcgacaa caacggcaac 180
 ggcgacgag tccaacgcgt ggtcgggagc gtcocggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcgt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcacatcc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360
 ggacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catgatccgg 420
 gagaaatttg cccactgcac cgtgctaacc attgcacaca gattgaacac cattattgac 480
 agcgacaaga taatggtttt agattcagga agactgaaag aatatgatga gccgtatggt 540
 ttgctgcaaa ataaagagag cctattttac aagatgggtc aacaactggg caaggcagaa 600
 gccgctgccc tactgaaac agcaaaacag agatggggtt tcaccatgtt ggccaggctg 660
 gtctcaaaat cctga 675

<210> 823
 <211> 291
 <212> DNA
 <213> Homo sapiens

306

<400> 823

```

atgggggatcc gggagaaatt tgccactgc accgtgctaa ccattgcaca cagattgaac 60
accattatttg acagcgacaa gataatgggt ttagattcag gaagactgaa agaatatgat 120
gagccgtatg ttttgctgca aaataaagag agcctathtt acaagatggg gcaacaactg 180
ggcaaggcag aagccgctgc cctcactgaa acagcaaac agagatgggg ttccaccatg 240
ttggccaggc tgggtctcaa ctccctcgag caccaccacc accaccactg a 291

```

<210> 824

<211> 1074

<212> DNA

<213> Homo sapiens

<400> 824

```

atgtcagcca ttgagagggt gtcagaggca atcgtcagca tccgaagaat ccagaccttt 60
ttgctacttg atgagatatt acagcgcaac cgtcagctgc cgtcagatgg taaaaagatg 120
gtgcatgtgc aggattttac tgcttttttg gataaggcat cagagacccc aactctacaa 180
ggccttttct ttactgtcag acctggcgaa ttgttagctg tggtcggccc cgtgggagca 240
gggaagtcat cactgttaag tgccgtgctc ggggaattgg cccaagtca cgggctgggc 300
agcgtgcatg gaagaattgc ctatgtgtct cagcagccct ggggtgttctc gggaactctg 360
aggagtaata ttttatttgg gaagaaatac gaaaaggaac gatatgaaa agtcataaag 420
gcttgtgctc tgaaaaagga ttacagctg ttggaggatg gtgatctgac tgtgatagga 480
gatcggggaa ccacgtgag tggagggcag aaagcacggg taaaccttgc aagagcagtg 540
tatcaagatg ctgacatcta tctcctggac gatcctctca gtgcagtaga tgcggaagtt 600
agcagacact tggtcgaact gtgtatttgc caaattttgc atgagaagat cacaatttta 660
gtgactcatc agttgcagta cctcaaagct gcaagtcaga ttctgatatt gaaagatggg 720
aaaatgggtgc agaaggggac ttacactgag ttcctaaaat ctggtataga ttttggtctc 780
cttttaaga aggataatga ggaaagtga caacctccag ttccagggaac tcccacacta 840
aggaatcgta ccttctcaga gtcttcgggt tgggtctcaac aatcttctag accctccttg 900
aaagatgggt ctctggagag ccaagataca gagaatgtcc cagttacact atcagaggag 960
aaccgttctg aaggaaaagt tgggttttcag gcctataaga attacttcag agctgggtgt 1020
cactggattg tcttcatttt ccttattctc gagcaccacc accaccacca ctga 1074

```

<210> 825

<211> 224

<212> PRT

<213> Homo sapiens

<400> 825

```

Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
                    5              10              15
Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
          20              25              30
Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
          35              40              45
Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
          50              55              60
Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
          65              70              75
Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
          85              90              95
Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
          100             105             110
Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
          115             120             125
Leu Ala Glu Gly Pro Pro Ala Glu Phe Met Ile Arg Glu Lys Phe Ala
          130             135             140
His Cys Thr Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp

```

307

145					150					155					160
Ser	Asp	Lys	Ile	Met	Val	Leu	Asp	Ser	Gly	Arg	Leu	Lys	Glu	Tyr	Asp
				165					170					175	
Glu	Pro	Tyr	Val	Leu	Leu	Gln	Asn	Lys	Glu	Ser	Leu	Phe	Tyr	Lys	Met
			180					185					190		
Val	Gln	Gln	Leu	Gly	Lys	Ala	Glu	Ala	Ala	Ala	Leu	Thr	Glu	Thr	Ala
		195					200					205			
Lys	Gln	Arg	Trp	Gly	Phe	Thr	Met	Leu	Ala	Arg	Leu	Val	Ser	Asn	Ser
	210					215					220				

<210> 826

<211> 357

<212> PRT

<213> Homo sapiens

<400> 826

Met	Ser	Ala	Ile	Glu	Arg	Val	Ser	Glu	Ala	Ile	Val	Ser	Ile	Arg	Arg
				5					10					15	
Ile	Gln	Thr	Phe	Leu	Leu	Leu	Asp	Glu	Ile	Ser	Gln	Arg	Asn	Arg	Gln
			20					25					30		
Leu	Pro	Ser	Asp	Gly	Lys	Lys	Met	Val	His	Val	Gln	Asp	Phe	Thr	Ala
		35					40					45			
Phe	Trp	Asp	Lys	Ala	Ser	Glu	Thr	Pro	Thr	Leu	Gln	Gly	Leu	Ser	Phe
	50					55					60				
Thr	Val	Arg	Pro	Gly	Glu	Leu	Leu	Ala	Val	Val	Gly	Pro	Val	Gly	Ala
	65				70				75						80
Gly	Lys	Ser	Ser	Leu	Leu	Ser	Ala	Val	Leu	Gly	Glu	Leu	Ala	Pro	Ser
			85					90						95	
His	Gly	Leu	Val	Ser	Val	His	Gly	Arg	Ile	Ala	Tyr	Val	Ser	Gln	Gln
		100						105					110		
Pro	Trp	Val	Phe	Ser	Gly	Thr	Leu	Arg	Ser	Asn	Ile	Leu	Phe	Gly	Lys
		115					120					125			
Lys	Tyr	Glu	Lys	Glu	Arg	Tyr	Glu	Lys	Val	Ile	Lys	Ala	Cys	Ala	Leu
	130					135					140				
Lys	Lys	Asp	Leu	Gln	Leu	Leu	Glu	Asp	Gly	Asp	Leu	Thr	Val	Ile	Gly
	145				150				155						160
Asp	Arg	Gly	Thr	Thr	Leu	Ser	Gly	Gly	Gln	Lys	Ala	Arg	Val	Asn	Leu
			165					170						175	
Ala	Arg	Ala	Val	Tyr	Gln	Asp	Ala	Asp	Ile	Tyr	Leu	Leu	Asp	Asp	Pro
		180					185						190		
Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg	His	Leu	Phe	Glu	Leu	Cys
		195					200					205			
Ile	Cys	Gln	Ile	Leu	His	Glu	Lys	Ile	Thr	Ile	Leu	Val	Thr	His	Gln
	210				215						220				
Leu	Gln	Tyr	Leu	Lys	Ala	Ala	Ser	Gln	Ile	Leu	Ile	Leu	Lys	Asp	Gly
	225				230					235					240
Lys	Met	Val	Gln	Lys	Gly	Thr	Tyr	Thr	Glu	Phe	Leu	Lys	Ser	Gly	Ile
			245						250					255	
Asp	Phe	Gly	Ser	Leu	Leu	Lys	Lys	Asp	Asn	Glu	Glu	Ser	Glu	Gln	Pro
		260					265						270		
Pro	Val	Pro	Gly	Thr	Pro	Thr	Leu	Arg	Asn	Arg	Thr	Phe	Ser	Glu	Ser
		275				280						285			
Ser	Val	Trp	Ser	Gln	Gln	Ser	Ser	Arg	Pro	Ser	Leu	Lys	Asp	Gly	Ala
	290				295						300				
Leu	Glu	Ser	Gln	Asp	Thr	Glu	Asn	Val	Pro	Val	Thr	Leu	Ser	Glu	Glu
	305				310					315					320
Asn	Arg	Ser	Glu	Gly	Lys	Val	Gly	Phe	Gln	Ala	Tyr	Lys	Asn	Tyr	Phe

308

325 330 335
 Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Glu His
 340 345 350
 His His His His His
 355

<210> 827
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 827
 Met Gly Ile Arg Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala
 5 10 15
 His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp
 20 25 30
 Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr Val Leu Leu Gln Asn
 35 40 45
 Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln Leu Gly Lys Ala Glu
 50 55 60
 Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg Trp Gly Phe Thr Met
 65 70 75 80
 Leu Ala Arg Leu Val Ser Asn Ser Leu Glu His His His His His His
 85 90 95

<210> 828
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 828
 cgcccatggg gatccgggag aaatttgccc actgc 35

<210> 829
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 829
 cgccctcgagg gagtttgaga ccagcctggc caaca 35

<210> 830
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 830

309

gcatggacca tatgtcagcc attgagaggg tgtcagag

38

<210> 831

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 831

cgcctcgaga ataaggaaaa tgaagacaat ccag

34

<210> 832

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 832

gttgaattca tgcacgggcc ccaggtg

27

<210> 833

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 833

cccctcgagt cactatgggtc tgcctcttga

30

<210> 834

<211> 915

<212> DNA

<213> Homo sapiens

<400> 834

```

atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcatcatcc cggtgacgtc atctcgggtg cctggcaaac caagtcgggc 360
ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catgcacggg 420
ccccaggtgc tggcacgctg ctccgagtgt gcttgtcctg ccttggctgc cacctctgcg 480
ggggtgcgtc tggagggggg ggaccggcca ccaaccttac ccagtcaagg aagtggatgg 540
ccatgttccc acagcctgag tggctgccac ctgatggctg atggagcaaa ggccttagga 600
aaagcagatg gcccttggcc ctaccttttt gttagaagaa ctgatgttcc atgtcctgca 660
cgcagtgagg ttggtggctg tgccccagc tcctggcgcg ccctgcaga ggtgactggt 720
tgctctttgg gccctcttgg ccttgcccag catgcacaag cctcagtgct actactgtgc 780

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310

tacaaatgga gccatatagg ggaaacgagc agccatctca ggagcaaggt gtatgctgcc 840
 ttggggggct ccagtccttg cctcaagggg cttatgtcac tgtgggcttc ttggttgtca 900
 agaggcagac catag 915

<210> 835

<211> 304

<212> PRT

<213> Homo sapiens

<400> 835

Met	His	His	His	His	His	His	Thr	Ala	Ala	Ser	Asp	Asn	Phe	Gln	Leu
			5						10					15	
Ser	Gln	Gly	Gly	Gln	Gly	Phe	Ala	Ile	Pro	Ile	Gly	Gln	Ala	Met	Ala
			20					25					30		
Ile	Ala	Gly	Gln	Ile	Lys	Leu	Pro	Thr	Val	His	Ile	Gly	Pro	Thr	Ala
		35					40					45			
Phe	Leu	Gly	Leu	Gly	Val	Val	Asp	Asn	Asn	Gly	Asn	Gly	Ala	Arg	Val
	50					55				60					
Gln	Arg	Val	Val	Gly	Ser	Ala	Pro	Ala	Ala	Ser	Leu	Gly	Ile	Ser	Thr
65					70					75				80	
Gly	Asp	Val	Ile	Thr	Ala	Val	Asp	Gly	Ala	Pro	Ile	Asn	Ser	Ala	Thr
			85					90						95	
Ala	Met	Ala	Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser
			100					105					110		
Val	Thr	Trp	Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr
		115					120					125			
Leu	Ala	Glu	Gly	Pro	Pro	Ala	Glu	Phe	Met	His	Gly	Pro	Gln	Val	Leu
	130					135					140				
Ala	Arg	Cys	Ser	Glu	Cys	Ala	Cys	Pro	Ala	Leu	Ala	Ala	Thr	Ser	Ala
145					150					155				160	
Gly	Val	Arg	Leu	Glu	Gly	Val	Asp	Arg	Pro	Pro	Thr	Leu	Pro	Ser	Gln
			165					170						175	
Gly	Ser	Gly	Trp	Pro	Cys	Ser	His	Ser	Leu	Ser	Gly	Cys	His	Leu	Met
		180					185						190		
Ala	Asp	Gly	Ala	Lys	Ala	Leu	Gly	Lys	Ala	Asp	Gly	Pro	Trp	Pro	Tyr
	195						200					205			
Leu	Phe	Val	Arg	Arg	Thr	Asp	Val	Pro	Cys	Pro	Ala	Ala	Ser	Glu	Val
	210					215					220				
Gly	Gly	Cys	Ala	Pro	Ser	Ser	Trp	Arg	Ala	Leu	Ala	Glu	Val	Thr	Gly
225					230					235				240	
Cys	Ser	Leu	Gly	Pro	Leu	Gly	Leu	Ala	Gln	His	Ala	Gln	Ala	Ser	Val
			245					250						255	
Leu	Leu	Leu	Cys	Tyr	Lys	Trp	Ser	His	Ile	Gly	Glu	Thr	Ser	Ser	His
		260					265						270		
Leu	Arg	Ser	Lys	Val	Tyr	Ala	Ala	Phe	Gly	Gly	Ser	Ser	Pro	Cys	Leu
	275					280						285			
Lys	Gly	Leu	Met	Ser	Leu	Trp	Ala	Ser	Trp	Leu	Ser	Arg	Gly	Arg	Pro
	290					295					300				

<210> 836

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 836

311

cgaagtcacg tggaggccag cctc

24

<210> 837

<211> 29

<212> DNA

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> PCR primer

<400> 837

cctgaccgaa ttcattaact ggcctggac

29

<210> 838

<211> 166

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> VARIANT

$\langle 222 \rangle$ (1) ... (166)

<223> Xaa = Any Amino Acid

<400> 838

[illegible]

<210> 839

<211> 504

<212> DNA

<213> Homo sapiens

<220>

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<221> misc_feature
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 $\langle 222 \rangle \quad (1) \dots (504)$

<223> n = A, T, C or G

312

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 aacagaccct tgctcgctaa cgacctcatg ctcattcaagt tggacgaatc cgtgtccgag 120
 tctgacacca tccggagcat cagcattgct tcgcagtgcc ctaccgcggg gaactcttgc 180
 ctcgtttctg gctggggtct gctggggaac ggcagaatgc ctaccgtgct gcagtgcgtg 240
 aacgtgtcgg tgggtgtctga ggaggtctgc agtaagctct atgacccgct gtaccacccc 300
 agcatgttct gcgcggcgagg agggcaanac cagaangact cctgcaacgg tgactctggg 360
 gggcccctga tctgcaacgg gtacttgcag ggccttgtgt ctttcggaaa agccccgtgt 420
 ggccaagtgt gcgtgccagg tgtctacacc aacctctgca aattcactga gtggatagag 480
 aaaaccgtcc aggcagttta atga 504

<210> 840
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 840
 ctcagggttc cggagccgcg g 21

<210> 841
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 841
 ctatagaatt cattaccaaa aagctgggct ccagc 35

<210> 842
 <211> 241
 <212> PRT
 <213> Homo sapiens

<400> 842
 Met Gln His His His His His Leu Arg Val Pro Glu Pro Arg Pro
 1 5 10 15
 Gly Glu Ala Lys Ala Glu Gly Ala Ala Pro Pro Thr Pro Ser Lys Pro
 20 25 30
 Leu Thr Ser Phe Leu Ile Gln Asp Ile Leu Arg Asp Gly Ala Gln Arg
 35 40 45
 Gln Gly Gly Arg Thr Ser Ser Gln Arg Gln Arg Asp Pro Glu Pro Glu
 50 55 60
 Pro Glu Pro Glu Pro Glu Gly Gly Arg Ser Arg Ala Gly Ala Gln Asn
 65 70 75 80
 Asp Gln Leu Ser Thr Gly Pro Arg Ala Ala Pro Glu Glu Ala Glu Thr
 85 90 95
 Leu Ala Glu Thr Glu Pro Glu Arg His Leu Gly Ser Tyr Leu Leu Asp
 100 105 110
 Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr Pro Lys
 115 120 125

313

Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln Val Ile
 130 135 140
 Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala Pro Glu
 145 150 155 160
 Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln Val Lys
 165 170 175
 Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln Leu Ser
 180 185 190
 Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala Leu Lys
 195 200 205
 Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn Ser Tyr
 210 215 220
 Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro Ala Phe
 225 230 235 240
 Trp

<210> 843

<211> 729

<212> DNA

<213> Homo sapiens

<400> 843

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atcctgcggg	acggcgcgca	gcggcaaggc	ggccgcacga	gcagccagag	acagcgcgac	180
ccggagccgg	agccagagcc	agagccagag	ggaggacgca	gccgcgccgg	ggcgcagAAC	240
gaccagctga	gcaccggggc	ccgcgcgcgc	ccggatgagg	ccgagacgct	ggcagagacc	300
gagccagaaa	ggcacttggg	gtcttatctg	ttggactctg	aaaacacttc	aggcgccctt	360
ccaaggcttc	cccaaaccac	taagcagccg	cagaagcgct	cccagagctg	cttctccac	420
actcaggtga	tcgagttgga	gaggaagtgc	agccatcaga	agtacctgtc	ggcccctgaa	480
cgggcccacc	tggccaagaa	cctcaagctc	acggagaccc	aagtgaagat	atggttcag	540
aacagacgct	ataagactaa	gcgaaagcag	ctctcctcgg	agctgggaga	cttgagaaag	600
cactcctttt	tgccggccct	gaaagaggag	gccttctccc	gggcctccct	ggtctccgtg	660
tataacagct	atccttacta	cccatacctg	cactgcgtgg	gcagctggag	cccagctttt	720
tggtaatga						729

<210> 844

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 844

ctactaagcg ctggagtggag ggatcag

27

<210> 845

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

314

<400> 845
catcgagaat tcactactct ctgactagat gtc

33

<210> 846
<211> 161
<212> PRT
<213> Homo sapiens

<400> 846
Met Gln His His His His His His Ala Gly Val Arg Asp Gln Gly Gln
1 5 10 15
Gly Ala Arg Trp Pro His Thr Gly Lys Arg Gly Pro Leu Leu Gln Gly
20 25 30
Leu Thr Trp Ala Thr Gly Gly His Cys Phe Ser Ser Glu Glu Ser Gly
35 40 45
Ala Val Asp Gly Ala Gly Gln Lys Lys Asp Arg Ala Trp Leu Arg Cys
50 55 60
Pro Glu Ala Val Ala Gly Phe Pro Leu Gly Ser Asp Cys Arg Glu Gly
65 70 75 80
Gly Arg Gln Gly Cys Gly Gly Ser Asp Asp Glu Asp Asp Leu Gly Val
85 90 95
Ala Pro Gly Leu Ala Pro Ala Trp Ala Leu Thr Gln Pro Pro Ser Gln
100 105 110
Ser Pro Gly Pro Gln Ser Leu Pro Ser Thr Pro Ser Ser Ile Trp Pro
115 120 125
Gln Trp Val Ile Leu Ile Thr Glu Leu Thr Ile Pro Ser Pro Ala His
130 135 140
Gly Pro Pro Trp Leu Pro Asn Ala Leu Glu Arg Gly His Leu Val Arg
145 150 155 160
Glu

<210> 847
<211> 489
<212> DNA
<213> Homo sapiens

<400> 847
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tgcttttcct ctgaggagtc aggagctgtg gatggtgctg gacagaagaa ggacagggcc 180
tggctcaggt gtccagaggc tgtogctggc ttcccttttg gatcagactg cagggaggga 240
gggcggcagg gttgtggggg gagtgacgat gaggatgacc tgggggtggc tccaggcctt 300
gccctgcct gggccctcac ccagcctccc tcacagtctc ctggccctca gtctctcccc 360
tccactccat cctccatctg gcctcagtgg gtcattctga tcaactgaact gaccataccc 420
agccctgccc acggccctcc atggctcccc aatgccctgg agaggggaca tctagtcaga 480
gagtagtga 489

<210> 848
<211> 132
<212> PRT
<213> Homo sapiens

<400> 848
Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe

315

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      1             5             10             15
Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
      20             25             30
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
      35             40             45
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
      50             55             60
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
      65             70             75             80
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
      85             90             95
Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
      100            105            110
Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
      115            120            125
Gly Pro Pro Ala
      130

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<210> 849
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 849
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31

<210> 850
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 850
 gggctcgagt cactcgccca cgaaatccgt gtaaaacagc

40

<210> 851
 <211> 1203
 <212> DNA
 <213> Homo sapiens

<400> 851
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 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
 ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcacatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
 ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catcacctat 420
 gtgccgcctc tgctgctgga agtgggggta gaggagaagt tcatgaccat ggtgctgggc 480
 attggtccag tgctgggcct ggtctgtgtc ccgctcctag gctcagccag tgaccactgg 540
 cgtggacgct atggccgcgc ccggcccttc atctgggcac tgtccttggg catcctgctg 600

316

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agcctctttc tcatcccaag ggccggctgg ctagcagggc tgctgtgccc ggatcccagg 660
ccoctggagc tggcactgct catcctgggc gtggggctgc tggacttctg tggccagggtg 720
tgcttcactc cactggaggc cctgctctct gacctcttcc gggacccgga ccactgtcgc 780
caggcctact ctgtctatgc cttcatgata agtcttgggg gctgcctggg ctacctcctg 840
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ctctttggcc tgctcacctt catcttcctc acctgcgtag cagccacact gctgggtggct 960
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cggtgcacc agctgtgctg ccgcatgccc cgcaccctgc gccggctctt cgtgggtgag 1140
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tga 1203

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<210> 852

<211> 400

<212> PRT

<213> Homo sapiens

<400> 852

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Met His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
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                    20                      25                      30
Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
                    35                      40                      45
Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
                    50                      55                      60
Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
                    65                      70                      75                      80
Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
                    85                      90                      95
Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
                    100                     105                     110
Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
                    115                     120                     125
Leu Ala Glu Gly Pro Pro Ala Glu Phe Ile Thr Tyr Val Pro Pro Leu
                    130                     135                     140
Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr Met Val Leu Gly
                    145                     150                     155                     160
Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala
                    165                     170                     175
Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
                    180                     185                     190
Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala
                    195                     200                     205
Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu
                    210                     215                     220
Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val
                    225                     230                     235                     240
Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro
                    245                     250                     255
Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu
                    260                     265                     270
Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser
                    275                     280                     285
Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu
                    290                     295                     300
Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala
                    305                     310                     315                     320

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317

Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala
 325 330 335
 Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe
 340 345 350
 Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg
 355 360 365
 Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp
 370 375 380
 Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu
 385 390 395 400

<210> 853
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 853
 Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val
 5 10 15
 Ser Val Arg Val
 20

<210> 854
 <211> 60
 <212> DNA
 <213> Homo sapiens

<400> 854
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<210> 855
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 <212> PRT
 <213> Homo sapiens

<400> 855
 Ala Ser Ala Cys Asp Val Ser Val Arg Val
 5 10

<210> 856
 <211> 30
 <212> DNA
 <213> Homo sapiens

<400> 856
 gcctctgcct gtgatgtctc cgtacgtgtg 30

<210> 857
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 857
 Ala Ser Ala Cys Asp Val Ser Val Arg
 1 5

<210> 858

318

<211> 9
<212> PRT
<213> Homo sapiens

<400> 858
Ser Ala Cys Asp Val Ser Val Arg Val
5

<210> 859
<211> 27
<212> DNA
<213> Homo sapiens

<400> 859
tctgcctgtg atgtctccgt acgtgtg

27

<210> 860
<211> 19
<212> PRT
<213> Homo sapiens

<400> 860
Gly Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser
5 10 15
Ala Ser Asp

<210> 861
<211> 19
<212> PRT
<213> Homo sapiens

<400> 861
Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr
5 10 15
Met Val Leu

<210> 862
<211> 19
<212> PRT
<213> Homo sapiens

<400> 862
Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala
5 10 15
Gln Leu Leu

<210> 863
<211> 57
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(57)
<223> n = A,T,C or G

319

<400> 863
ggnathggnc cngtnytngg nytngtntgy gtnccnytny tnggnwsngc nwsngay 57

<210> 864
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<212> DNA
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<220>
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<222> (1)...(57)
<223> n = A,T,C or G

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<210> 865
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<220>
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<223> n = A,T,C or G

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<210> 866
<211> 9
<212> PRT
<213> Homo sapiens

<400> 866
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1 5

<210> 867
<211> 9
<212> PRT
<213> Homo sapiens

<400> 867
Arg Met Pro Thr Val Leu Gln Cys Val
1 5

<210> 868
<211> 9
<212> PRT
<213> Homo sapiens

<400> 868
Asn Leu Cys Lys Phe Thr Glu Trp Ile
1 5

320

<210> 869
<211> 9
<212> PRT
<213> Homo sapiens

<400> 869
Met Leu Ile Lys Leu Asp Glu Ser Val
1 5

<210> 870
<211> 9
<212> PRT
<213> Homo sapiens

<400> 870
Leu Leu Ala Asn Asp Leu Met Leu Ile
1 5

<210> 871
<211> 10
<212> PRT
<213> Homo sapiens

<400> 871
Leu Leu Ala Asn Gly Arg Met Pro Thr Val
1 5 10

<210> 872
<211> 10
<212> PRT
<213> Homo sapiens

<400> 872
Leu Met Leu Ile Lys Leu Asp Glu Ser Val
1 5 10

<210> 873
<211> 10
<212> PRT
<213> Homo sapiens

<400> 873
Val Leu Gln Cys Val Asn Val Ser Val Val
1 5 10

<210> 874
<211> 10
<212> PRT
<213> Homo sapiens

<400> 874
Gly Leu Leu Ala Asn Gly Arg Met Pro Thr
1 5 10

<210> 875
<211> 10
<212> PRT

321

<213> Homo sapiens

<400> 875

Thr Val Leu Gln Cys Val Asn Val Ser Val
 1 5 10

<210> 876

<211> 9

<212> PRT

<213> Homo sapiens

<400> 876

Gly Val Leu Val His Pro Gln Trp Val
 1 5

<210> 877

<211> 9

<212> PRT

<213> Homo sapiens

<400> 877

Val Leu Val His Pro Gln Trp Val Leu
 1 5

<210> 878

<211> 1195

<212> DNA

<213> Homo sapiens

<400> 878

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cagaacttca	gcacacacag	gaactctttc	cacagtggca	cttgccaatt	aaaatagctg	300
ctattatagc	atctctgact	tttctttaca	ctcttctgag	ggaagtaatt	caccctttag	360
caacttccca	tcaacaatat	ttttataaaa	ttccaatcct	ggatcatcac	aaagtcttgc	420
caatggtttc	catcactctc	ttggcatttg	tttacctgcc	aggtgtgata	gcagcaattg	480
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atataaaaca	atttgtatgg	tatacacctc	caacttttat	gatagctgtt	ttccttccaa	960
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agattagaca	tggttgggaa	gacgtcacca	aaattaacaa	aactgagata	tgttcccagt	1080
tgtagaatta	ctgttttacac	acatttttgt	tcaatattga	tatatattat	caccaacatt	1140
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<210> 879

<211> 339

<212> PRT

<213> Homo sapiens

<400> 879

[illegible]

<210> 880

<211> 2172

<212> DNA

<213> Homo sapiens

<400> 880

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aaaatatattg	aattttattc	atcttaaaaa	ttggaccgg	ccttattttac	catctttaat	120
ccatttttagt	actatgggtg	agtacatgga	attgaagtct	ggcttaaatc	ttcagaaagt	180
tatatatacta	ttttattttta	tttttttgag	acagagtctc	gctgtgtcac	ccaggctgga	240
gtgcgggtgcc	acaatctttg	ctcactgcaa	cctctgagtc	ccaggttcaa	gcgataacta	300
tgcctcggcc	tctctgagtag	ctgggactac	aggcgtgcac	caccacatct	ggctaactct	360
tttttgtatt	tttagtagag	acgggggttc	actctggtct	ccatctcctg	acctcgtgat	420

323

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ccgcctgcct cccaaagtgc tgggattaca ggcatgagcc accgcacaca gctgggactg 480
ggtaatttat aaagaaaaga ggtttaataga ctcacagttc cgcattggctg gagaggcctc 540
aggaaactta caatcatggt ggaaggcgaa ggggaagcaa ggcacgtctt acatgggtggc 600
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ggccctgttg cccaggctgg agtgacgtgg catgatctca gctcactgca acctctgcct 720
cacaggttca agcaattctc atgcctcagc ctcccgcata gctgggacca cagggtatgca 780
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```

<210> 881

<211> 2455

<212> DNA

<213> Homo sapiens

<400> 881

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324

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<210> 882

<211> 2455

<212> DNA

<213> Homo sapiens

<400> 882

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325

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```

<210> 883

<211> 62

<212> PRT

<213> Homo sapiens

<400> 883

```

Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn
              5              10              15
His Gly Gly Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
              20              25              30
Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
              35              40              45
Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
              50              55              60

```

<210> 884

<211> 135

<212> PRT

<213> Homo sapiens

<400> 884

```

Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg
              5              10              15
Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
              20              25              30
Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
              35              40              45
Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
              50              55              60
Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
              65              70              75              80
Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
              85              90              95
Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro
              100              105              110
Lys Cys Trp Gly Tyr Arg His Lys Pro Pro His Pro Ala Cys His Ile
              115              120              125
Leu Leu Asn Tyr Gln Val Ser
              130              135

```

<210> 885

<211> 77

<212> PRT

<213> Homo sapiens

<400> 885

```

Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln

```

326

```

          5          10          15
Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His
          20          25          30
Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
          35          40          45
Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln
          50          55          60
Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu
          65          70          75

```

<210> 886
 <211> 60
 <212> PRT
 <213> Homo sapiens

```

<400> 886
Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
          5          10          15
Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
          20          25          30
Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
          35          40          45
Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
          50          55          60

```

<210> 887
 <211> 76
 <212> PRT
 <213> Homo sapiens

```

<400> 887
Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
          5          10          15
Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
          20          25          30
Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
          35          40          45
Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
          50          55          60
Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
          65          70          75

```

<210> 888
 <211> 76
 <212> PRT
 <213> Homo sapiens

```

<400> 888
Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
          5          10          15
Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
          20          25          30
Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly
          35          40          45
Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
          50          55          60
Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
          65          70          75

```


327

<210> 889
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 889
 Met Leu Leu His Ser Ser Leu Val Asn Arg Ala Arg Leu Cys Leu Lys
 5 10 15
 Asn Lys Gln Ile Asn Lys Gln Thr Asn Lys Thr Glu Arg Phe Cys Cys
 20 25 30
 Asn Val Gln Gly Ala Ile Cys Ser Phe Lys Lys Ile Ile Phe Gly Gln
 35 40 45
 Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala Lys Val
 50 55 60
 Gly Gly Ser Phe Glu Val Arg Ser Leu Arg Ser Ala Trp Pro Thr Trp
 65 70 75 80

<210> 890
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 890
 Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro His Asn Pro
 5 10 15
 Ile Thr Ser His Gln Val Ser Ser Asp Thr Trp Asp Trp Val Gly Thr
 20 25 30
 Gln Ser Gln Thr Val Ser Asp Ala Ala Gly Ala Gly Asp Thr Glu Thr
 35 40 45
 Thr Gln Thr Trp Cys Leu Cys His Ser Ser Gly Leu Cys Leu Ser Pro
 50 55 60
 Gly Pro Pro Ser Pro Ser Met Val
 65 70

<210> 891
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 891
 Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln
 5 10 15
 Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His
 20 25 30
 Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
 35 40 45
 Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln
 50 55 60
 Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu
 65 70 75

<210> 892
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 892

Met	Leu	Val	His	Ile	Tyr	Ser	Cys	Cys	Gly	Met	Val	Tyr	Arg	Phe	Gly
				5					10					15	
Gln	Met	Ser	Asp	Asn	Pro	Phe	Tyr	Ile	Leu	Ala	Ser	Leu	Gly	Ser	Ser
			20					25					30		
Ser	Cys	Arg	Asn	Gly	Leu	Ala	Ser	Lys	Trp	Arg	Gln	Ala	Asp	Pro	Ser
			35				40						45		
Asp	Gly	Tyr	Met	Glu	Pro	Cys	Phe	Gln	Leu	Leu	Phe				
	50					55					60				

```
<210> 893
<211> 76
<212> PRT
<213> Homo sapiens
```

<400> 893																
Met	Cys	Leu	Cys	Ile	Pro	Leu	Gly	Gly	Tyr	Gln	Glu	Leu	Cys	His	Cys	
				5					10					15		
Met	Ser	Thr	Ser	Asp	Gly	Phe	Ala	Pro	Pro	Pro	Gln	Leu	Gly	Ser	Arg	
			20					25					30			
Cys	Ser	His	Ile	Arg	Gly	Pro	Ile	Lys	Ile	Ala	Arg	Asn	Lys	Phe	Pro	
		35					40					45				
Arg	Thr	Leu	Thr	Ser	Gln	Glu	Leu	Arg	Arg	Phe	Ala	Glu	Tyr	Ser	Gly	
	50					55					60					
Met	Met	Phe	Gly	Asp	Gln	Thr	Thr	Ala	Gly	Gln	Lys					
65					70					75						

```
<210> 894
<211> 2479
<212> DNA
<213> Homo sapiens
```

<400> 894						
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329

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```

<210> 895

<211> 492

<212> PRT

<213> Homo sapiens

<400> 895

```

Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
      5                               10                      15
Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
      20                               25                      30
Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
      35                               40                      45
Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
      50                               55                      60
Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
      65                               70                      75                      80
Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
      85                               90                      95
Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
      100                              105                     110
Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
      115                              120                     125
Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
      130                              135                     140
Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met
      145                              150                     155                     160
Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
      165                              170                     175
Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
      180                              185                     190
Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
      195                              200                     205
Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys
      210                              215                     220
Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg
      225                              230                     235                     240
Cys Leu Ala Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile
      245                              250                     255
Val Gly Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser
      260                              265                     270
Leu His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro

```

			275					280					285			
Glu	Trp	Ile	Val	Thr	Ala	Ala	His	Cys	Val	Glu	Lys	Pro	Leu	Asn	Asn	
	290					295					300					
Pro	Trp	His	Trp	Thr	Ala	Phe	Ala	Gly	Ile	Leu	Arg	Gln	Ser	Phe	Met	
305					310					315					320	
Phe	Tyr	Gly	Ala	Gly	Tyr	Gln	Val	Gln	Lys	Val	Ile	Ser	His	Pro	Asn	
				325					330					335		
Tyr	Asp	Ser	Lys	Thr	Lys	Asn	Asn	Asp	Ile	Ala	Leu	Met	Lys	Leu	Gln	
			340					345					350			
Lys	Pro	Leu	Thr	Phe	Asn	Asp	Leu	Val	Lys	Pro	Val	Cys	Leu	Pro	Asn	
		355				360						365				
Pro	Gly	Met	Met	Leu	Gln	Pro	Glu	Gln	Leu	Cys	Trp	Ile	Ser	Gly	Trp	
	370					375					380					
Gly	Ala	Thr	Glu	Glu	Lys	Gly	Lys	Thr	Ser	Glu	Val	Leu	Asn	Ala	Ala	
385					390					395					400	
Lys	Val	Leu	Leu	Ile	Glu	Thr	Gln	Arg	Cys	Asn	Ser	Arg	Tyr	Val	Tyr	
			405						410				415			
Asp	Asn	Leu	Ile	Thr	Pro	Ala	Met	Ile	Cys	Ala	Gly	Phe	Leu	Gln	Gly	
			420					425					430			
Asn	Val	Asp	Ser	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Val	Thr	Ser	
		435				440						445				
Asn	Asn	Asn	Ile	Trp	Trp	Leu	Ile	Gly	Asp	Thr	Ser	Trp	Gly	Ser	Gly	
	450					455				460						
Cys	Ala	Lys	Ala	Tyr	Arg	Pro	Gly	Val	Tyr	Gly	Asn	Val	Met	Val	Phe	
465					470					475					480	
Thr	Asp	Trp	Ile	Tyr	Arg	Gln	Met	Lys	Ala	Asn	Gly					
			485						490							

<400> 896						
gtcatattga	acattccaga	tacctatcat	tactcgatgc	tgttgataac	agcaagatgg	60
ctttgaactc	agggtcacca	ccagctattg	gaccttacta	tgaaaaccat	ggataccaac	120
cggaaaacc	ctatcccgca	cagcccactg	tgtgtcccac	tgtctacgag	ctgcatcgg	180
ctcagtacta	cccggtcccc	gtgccccagt	acgccccgag	tgctctgacg	gagccttcca	240
accccgtcgt	ctgcacgcag	cccaaattcc	catccgggag	agtgtgcacc	tcaaagacta	300
agaaagcact	gtgcatcacc	ttgacctctg	ggaccttctc	cgtgggagct	gcgctggccg	360
ctggcctact	ctggaagttc	atgggcagca	agtgtcccaa	ctctgggata	gagtgcgact	420
octcaggtac	ctgcatcaac	ccctotaact	ggtgtgatgg	cgtgtcacac	tgccccggcg	480
gggaggacga	gaatcggtgt	gttcgcctct	acggaccaa	cttcctcctt	cagatgtact	540
catctcagag	gaagtccttg	cacctgtgt	gccaaagcga	ctggaacgag	aactacgggc	600
gggcggcctg	caggatcagt	ggctataaga	ataattttta	ctctagccaa	ggaatatgtg	660
atgacagcgg	atccaccagc	ttt				683

<400> 897
Met Ala Ieu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
1 5 10 15

331

Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
 20 25 30
 Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
 35 40 45
 Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
 50 55 60
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
 65 70 75 80
 Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
 85 90 95
 Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
 100 105 110
 Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
 115 120 125
 Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
 130 135 140
 Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met
 145 150 155 160
 Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
 165 170 175
 Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
 180 185 190
 Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
 195 200 205
 Phe

<210> 898
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 898
 Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
 1 5 10 15
 Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg
 20 25

<210> 899
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 899
 ggatccgccg ccaccatgct actttctagc ctgct

35

<210> 900
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 900

332

gtcgactcag ctggaccaca gccgcag

27

<210> 901

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 901

ggatccgccg ccaccatggg ctgcaggctg ctct

34

<210> 902

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 902

gtcgactcag aaatcctttc tottgac

27

<210> 903

<211> 936

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...()

<223> n = A,T,C or G

<400> 903

```

atgggctgca ggctgntctg ctgtgcgggt ctctgtctcc tgggagcggg ccccatggaa 60
acgggagtta cgcagacacc aagacacctg gtcattggga tgacaaataa gaagtctttg 120
aaatgtgaac aacatctggg tcataacgct atgtattggg acaagcaaag tgctaagaag 180
ccactggagc tcatgtttgt ctacagtctt gaagaacggg ttgaaaacaa cagtgtgcca 240
agtcgcttct cacctgaatg cccaacagc tctcacttat tccttcacct acacaccctg 300
cagccagaag actcggccct gtatctctgc gccagcagcc aagaccggac aagcagctcc 360
tacgagcagt acttcgggcc gggcaccagg ctcacgggtc cagaggacct gaaaaacgtg 420
ttcccacccg aggtcgctgt gtttgagcca tcagaagcag agatctccca caccctaaag 480
gccacactgg tgtgcctggc cacaggcttc taccctgacc acgtggagct gagctggtgg 540
gtgaatggga aggaggtgca cagtgggggtc agcacagacc cgcagccctt caaggagcag 600
cccgccctca atgactccag atactgcctg agcagccgcc tgagggtctc ggccaccttc 660
tggcagaacc cccgcaacca ctccgctgt caagtccagt tctacgggct ctcgagaaat 720
gacgagtggg cccaggatag ggccaaacct gtcacccaga tcgtcagcgc cgaggcctgg 780
ggtagagcag actgtggtct cacctccgag tcttaccagc aaggggtcct gtctgccacc 840
atcctctatg agatcttgct agggaaggcc acctgtatg ccgtgctggt cagtgccttc 900
gtgctgatgg ccatggtcaa gagaaaggat ttctga 936

```

<210> 904

<211> 834

<212> DNA

<213> Homo sapiens

```
<220>
<221> misc_feature
<222> (1)...()
<223> n = A,T,C or G
```

<400> 904						
atgtcacttt	ctagcctgct	naaggtggtc	acagcttcac	tgtggctagg	acctggcatt	60
gcccagaaga	taactcaaac	ccaaccagga	atgttcctgtc	agggaaaagga	ggctgtgact	120
ctggactgca	caatcagcac	cagtgatcaa	agttatggtc	tcttctggta	caagcagccc	180
agcagtgggg	aaatgatttt	tcttatttat	caggggtctt	atgacgagca	aaatgcaaca	240
gaaggtcgct	actcattgaa	tttcacagaag	gcaagaaaat	ccgccaacct	tgtcatctcc	300
gcttcacaac	tgggggactc	agcaatgtat	ttctgtgcaa	tgagagaggg	cgcgggagga	360
ggaacacaac	tcacctttgg	gacaggcact	cagctaaaag	tggaaactca	tatccagaac	420
ctcgaccctg	ccgtgtacca	gctgagagac	tctaaatcca	gtgacaagtc	tgtctgccta	480
ttcaccgatt	ttgattctca	aacaaatgtg	tcacaaagta	aggattctga	tgtgtatatc	540
acagacaaaa	ctgtgctaga	catgaggtct	atggacttca	agagcaacag	tgtgtggccc	600
tggagcaaca	aatctgactt	tgcattgtgca	aacgccttca	acaacagcat	tattccagaa	660
gacacattct	tccccagccc	agaaaagttcc	tgtgatgtca	agctgggtcg	gaaaagcttt	720
gaaacagata	cgaacctaaa	ctttcaaaac	ctgcactgta	tggggtccg	aatcctctc	780
ctgaaagtgg	ccgggtttaa	tctgctcatg	acgctgcggc	tgtggtccag	ctga	834

```
<210> 905
<211> 311
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> variant  
<222> (1)...(311)  
<223> Xaa = Any amino acid
```

<400>	905															
Met	Gly	Cys	Arg	Leu	Xaa	Cys	Cys	Ala	Val	Leu	Cys	Leu	Leu	Gly	Ala	
				5					10					15		
Val	Pro	Met	Glu	Thr	Gly	Val	Thr	Gln	Thr	Pro	Arg	His	Leu	Val	Met	
			20					25					30			
Gly	Met	Thr	Asn	Lys	Lys	Ser	Leu	Lys	Cys	Glu	Gln	His	Leu	Gly	His	
		35					40					45				
Asn	Ala	Met	Tyr	Trp	Tyr	Lys	Gln	Ser	Ala	Lys	Lys	Pro	Leu	Glu	Leu	
	50					55					60					
Met	Phe	Val	Tyr	Ser	Leu	Glu	Glu	Arg	Val	Glu	Asn	Asn	Ser	Val	Pro	
	65				70					75					80	
Ser	Arg	Phe	Ser	Pro	Glu	Cys	Pro	Asn	Ser	Ser	His	Leu	Phe	Leu	His	
				85					90					95		
Leu	His	Thr	Leu	Gln	Pro	Glu	Asp	Ser	Ala	Leu	Tyr	Leu	Cys	Ala	Ser	
			100					105					110			
Ser	Gln	Asp	Arg	Thr	Ser	Ser	Ser	Tyr	Glu	Gln	Tyr	Phe	Gly	Pro	Gly	
		115					120					125				
Thr	Arg	Leu	Thr	Val	Thr	Glu	Asp	Leu	Lys	Asn	Val	Phe	Pro	Pro	Glu	
	130					135					140					
Val	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln	Lys	
145					150					155					160	
Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Tyr	Pro	Asp	His	Val	Glu	
				165					170					175		
Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser	Thr	
			180					185					190			
Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Asn	Asp	Ser	Arg	Tyr	
		195				200						205				

334

Cys Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro
 210 215 220
 Arg Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn
 225 230 235 240
 Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser
 245 250 255
 Ala Glu Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr
 260 265 270
 Gln Gln Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly
 275 280 285
 Lys Ala Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala
 290 295 300
 Met Val Lys Arg Lys Asp Phe
 305 310

<210> 906

<211> 277

<212> PRT

<213> Homo sapiens

<400> 906

Met Ser Leu Ser Ser Leu Leu Lys Val Val Thr Ala Ser Leu Trp Leu
 5 10 15
 Gly Pro Gly Ile Ala Gln Lys Ile Thr Gln Thr Gln Pro Gly Met Phe
 20 25 30
 Val Gln Glu Lys Glu Ala Val Thr Leu Asp Cys Thr Tyr Asp Thr Ser
 35 40 45
 Asp Gln Ser Tyr Gly Leu Phe Trp Tyr Lys Gln Pro Ser Ser Gly Glu
 50 55 60
 Met Ile Phe Leu Ile Tyr Gln Gly Ser Tyr Asp Glu Gln Asn Ala Thr
 65 70 75 80
 Glu Gly Arg Tyr Ser Leu Asn Phe Gln Lys Ala Arg Lys Ser Ala Asn
 85 90 95
 Leu Val Ile Ser Ala Ser Gln Leu Gly Asp Ser Ala Met Tyr Phe Cys
 100 105 110
 Ala Met Arg Glu Gly Ala Gly Gly Gly Asn Lys Leu Thr Phe Gly Thr
 115 120 125
 Gly Thr Gln Leu Lys Val Glu Leu Asn Ile Gln Asn Pro Asp Pro Ala
 130 135 140
 Val Tyr Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu
 145 150 155 160
 Phe Thr Asp Phe Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser
 165 170 175
 Asp Val Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp
 180 185 190
 Phe Lys Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala
 195 200 205
 Cys Ala Asn Ala Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe
 210 215 220
 Pro Ser Pro Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe
 225 230 235 240
 Glu Thr Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe
 245 250 255
 Arg Ile Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu
 260 265 270
 Arg Leu Trp Ser Ser
 275

335

<210> 907
 <211> 1536
 <212> DNA
 <213> Homo sapiens

<400> 907
 atgtacaacc tgttgctgtc ctacgacaga catggggacc acctgcagcc cctggacctc 60
 gtgcccatac accaggtgtc cacccttttc aagctggctg gactggaggg taacactgtg 120
 atgtttcagc acctgatgca gaagcggagc cacacccagt ggacgtatgg accactgacc 180
 tcgactctct atgacctcac agagatcgac tccctcaggg atgagcagtc cctgctggaa 240
 cttatcatca ccaccaagaa gcgggaggct cgccagatcc tggaccagac gccggtgaag 300
 gagctggtga gcctcaagtg gaagcggtag gggcggccgt acttctgcat gctgggtgcc 360
 atatatctgc tgtacatcat ctgcttcacc atgtgctgca tctaccgcc cctcaagccc 420
 aggaccaata accgcacgag ccccgggac aacacctct tacagcagaa gctacttcag 480
 gaagcctaca tgaccctaa ggacgatata cggttggtcg gggagctggt gactgtcatt 540
 ggggctatca tcatcctgct ggtagaggtt ccagacatct tcagaatggg ggtcactcgc 600
 ttctttggac agaccatcct tgggggcca tccatgtcc tcatcatcac ctatgccttc 660
 atggtgctgg tgaccatggt gatgcggctc atcagtcca gcggggaggt ggtacccatg 720
 tcctttgcac tcgtgctggg ctggtgcaac gtcattgtact tcgcccagg attccagatg 780
 ctaggccctc tcaccatcat gattcagaag atgatttttg gcgacctgat gcgattctgc 840
 tggctgatgg ctgtggtcat cctgggcttt gcttcagcct tctatatcat cttccagaca 900
 gaggaccccg aggagctagg ccacttctac gactaccca tggccctgtt cagcaccttc 960
 gagctgttcc ttaccatcat cgatggcca gccaaactaca acgtggacct gcccttcatt 1020
 tacagcatca cctatgctgc ctttgccatc atcgccacac tgctcatgct caacctcctc 1080
 attgccatga tgggcgacac tcactggcga gtggcccatg agcgggatga gctgtggagg 1140
 gccagattg tggccaccac ggtgatgctg gagcggaaag tgccctcgct cctgtggcct 1200
 cgctccggga tctgcggacg ggagtatggc ctgggagacc gctggttccg gcgggtggaa 1260
 gacaggcaag atctcaaccg gcagcggatc caacgctacg cacaggcctt ccacaccggg 1320
 ggctctgagg atttggacaa agactcagtg gaaaaactag agctgggctg tcccttcagg 1380
 cccacactgt cccttcctat gccctcagtg tctcgaagta cctcccgag cagtgccaat 1440
 tgggaaaggc ttcggcaagg gaccctgagg agagacctgc gtgggataat caacaggggt 1500
 ctggaggacg gggagagctg ggaatatcag atctga 1536

<210> 908
 <211> 1533
 <212> DNA
 <213> Homo sapiens

<400> 908
 atgtacaacc tgttgctgtc ctacgacaga catggggacc acctgcagcc cctggacctc 60
 gtgcccatac accaggtgtc cacccttttc aagctggctg gactggaggg taacactgtg 120
 atgtttcagc acctgatgca gaagcggagc cacacccagt ggacgtatgg accactgacc 180
 tcgactctct atgacctcac agagatcgac tccctcaggg atgagcagtc cctgctggaa 240
 cttatcatca ccaccaagaa gcgggaggct cgccagatcc tggaccagac gccggtgaag 300
 gagctggtga gcctcaagtg gaagcggtag gggcggccgt acttctgcat gctgggtgcc 360
 atatatctgc tgtacatcat ctgcttcacc atgtgctgca tctaccgcc cctcaagccc 420
 aggaccaata accgcacgag ccccgggac aacacctct tacagcagaa gctacttcag 480
 gaagcctaca tgaccctaa ggacgatata cggttggtcg gggagctggt gactgtcatt 540
 ggggctatca tcatcctgct ggtagaggtt ccagacatct tcagaatggg ggtcactcgc 600
 ttctttggac agaccatcct tgggggcca tccatgtcc tcatcatcac ctatgccttc 660
 atggtgctgg tgaccatggt gatgcggctc atcagtcca gcggggaggt ggtacccatg 720
 tcctttgcac tcgtgctggg ctggtgcaac gtcattgtact tcgcccagg attccagatg 780
 ctaggccctc tcaccatcat gattcagaag atgatttttg gcgacctgat gcgattctgc 840
 tggctgatgg ctgtggtcat cctgggcttt gcttcagcct tctatatcat cttccagaca 900
 gaggaccccg aggagctagg ccacttctac gactaccca tggccctgtt cagcaccttc 960
 gagctgttcc ttaccatcat cgatggcca gccaaactaca acgtggacct gcccttcatt 1020
 tacagcatca cctatgctgc ctttgccatc atcgccacac tgctcatgct caacctcctc 1080

336

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attgccatga tgggcgacac tcactggcga gtggcccatg agcgggatga gctgtggagg 1140
gccagattg tggccaccac ggtgatgctg gagcggaagc tgcctcgtg cctgtggcct 1200
cgctccggga tctgcggacg ggagtatggc ctgggagacc gctggttcct gcgggtggaa 1260
gacaggcaag atctcaaccg gcagcggatc caacgctacg cacaggcctt ccacaccggg 1320
ggctctgagg atttggacaa agactcagtg gaaaaactag agctgggctg tcccttcagc 1380
ccccacctgt cccttcctat gccctcagtg tctcgaagta cctccgcag cagtggcaat 1440
tgggaaaggc ttcggcaagg gaccctgagg agagacctgc gtgggataat caacaggggt 1500
ctggaggacg gggagagctg ggaatatcag atc 1533

```

<210> 909

<211> 511

<212> PRT

<213> Homo sapiens

<400> 909

```

Met Tyr Asn Leu Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln
                    5                      10                      15
Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu
                    20                      25                      30
Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys
                    35                      40                      45
Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr
                    50                      55                      60
Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu
                    65                      70                      75                      80
Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln
                    85                      90                      95
Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg
                    100                     105                     110
Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys
                    115                     120                     125
Phe Thr Met Cys Cys Ile Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn
                    130                     135                     140
Arg Thr Ser Pro Arg Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln
                    145                     150                     155                     160
Glu Ala Tyr Met Thr Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu
                    165                     170                     175
Val Thr Val Ile Gly Ala Ile Ile Ile Leu Leu Val Glu Val Pro Asp
                    180                     185                     190
Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln Thr Ile Leu Gly
                    195                     200                     205
Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe Met Val Leu Val
                    210                     215                     220
Thr Met Val Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met
                    225                     230                     235                     240
Ser Phe Ala Leu Val Leu Gly Trp Cys Asn Val Met Tyr Phe Ala Arg
                    245                     250                     255
Gly Phe Gln Met Leu Gly Pro Phe Thr Ile Met Ile Gln Lys Met Ile
                    260                     265                     270
Phe Gly Asp Leu Met Arg Phe Cys Trp Leu Met Ala Val Val Ile Leu
                    275                     280                     285
Gly Phe Ala Ser Ala Phe Tyr Ile Ile Phe Gln Thr Glu Asp Pro Glu
                    290                     295                     300
Glu Leu Gly His Phe Tyr Asp Tyr Pro Met Ala Leu Phe Ser Thr Phe
                    305                     310                     315                     320
Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro Ala Asn Tyr Asn Val Asp
                    325                     330                     335
Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala Ala Phe Ala Ile Ile Ala

```

337

```

          340          345          350
Thr Leu Leu Met Leu Asn Leu Leu Ile Ala Met Met Gly Asp Thr His
          355          360          365
Trp Arg Val Ala His Glu Arg Asp Glu Leu Trp Arg Ala Gln Ile Val
          370          375          380
Ala Thr Thr Val Met Leu Glu Arg Lys Leu Pro Arg Cys Leu Trp Pro
385          390          395          400
Arg Ser Gly Ile Cys Gly Arg Glu Tyr Gly Leu Gly Asp Arg Trp Phe
          405          410          415
Leu Arg Val Glu Asp Arg Gln Asp Leu Asn Arg Gln Arg Ile Gln Arg
          420          425          430
Tyr Ala Gln Ala Phe His Thr Arg Gly Ser Glu Asp Leu Asp Lys Asp
          435          440          445
Ser Val Glu Lys Leu Glu Leu Gly Cys Pro Phe Ser Pro His Leu Ser
          450          455          460
Leu Pro Met Pro Ser Val Ser Arg Ser Thr Ser Arg Ser Ser Ala Asn
465          470          475          480
Trp Glu Arg Leu Arg Gln Gly Thr Leu Arg Arg Asp Leu Arg Gly Ile
          485          490          495
Ile Asn Arg Gly Leu Glu Asp Gly Glu Ser Trp Glu Tyr Gln Ile
          500          505          510

```

<210> 910
 <211> 134
 <212> PRT
 <213> Homo sapiens

```

<400> 910
Met Tyr Asn Leu Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln
          5          10          15
Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu
          20          25          30
Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys
          35          40          45
Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr
          50          55          60
Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu
          65          70          75          80
Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln
          85          90          95
Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg
          100          105          110
Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys
          115          120          125
Phe Thr Met Cys Cys Ile
          130

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<210> 911
 <211> 55
 <212> PRT
 <213> Homo sapiens

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<400> 911
Ala Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr Ser Pro Arg
          5          10          15
Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala Tyr Met Thr
          20          25          30
Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu Val Thr Val Ile Gly

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338

35 40 45
 Ala Ile Ile Ile Leu Leu Val
 50 55

<210> 912
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 912
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 5 10 15
 Thr Ile Leu Gly Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe
 20 25 30
 Met Val Leu Val Thr Met Val
 35

<210> 913
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 913
 Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met Ser Phe Ala
 5 10 15
 Leu Val Leu

<210> 914
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 914
 Gly Trp Cys Asn Val Met Tyr Phe Ala Arg Gly Phe Gln Met Leu Gly
 5 10 15
 Pro Phe Thr Ile Met Ile Gln Lys Met Ile Phe Gly Asp Leu Met Arg
 20 25 30
 Phe Cys Trp Leu Met Ala Val Val Ile Leu Gly Phe Ala Ser Ala Phe
 35 40 45
 Tyr Ile Ile Phe
 50

<210> 915
 <211> 213
 <212> PRT
 <213> Homo sapiens

<400> 915
 Gln Thr Glu Asp Pro Glu Glu Leu Gly His Phe Tyr Asp Tyr Pro Met
 5 10 15
 Ala Leu Phe Ser Thr Phe Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro
 20 25 30
 Ala Asn Tyr Asn Val Asp Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala
 35 40 45
 Ala Phe Ala Ile Ile Ala Thr Leu Leu Met Leu Asn Leu Leu Ile Ala
 50 55 60
 Met Met Gly Asp Thr His Trp Arg Val Ala His Glu Arg Asp Glu Leu

339

65					70					75				80	
Trp	Arg	Ala	Gln	Ile	Val	Ala	Thr	Thr	Val	Met	Leu	Glu	Arg	Lys	Leu
				85					90					95	
Pro	Arg	Cys	Leu	Trp	Pro	Arg	Ser	Gly	Ile	Cys	Gly	Arg	Glu	Tyr	Gly
			100					105					110		
Leu	Gly	Asp	Arg	Trp	Phe	Leu	Arg	Val	Glu	Asp	Arg	Gln	Asp	Leu	Asn
		115					120					125			
Arg	Gln	Arg	Ile	Gln	Arg	Tyr	Ala	Gln	Ala	Phe	His	Thr	Arg	Gly	Ser
		130				135					140				
Glu	Asp	Leu	Asp	Lys	Asp	Ser	Val	Glu	Lys	Leu	Glu	Leu	Gly	Cys	Pro
		145			150					155					160
Phe	Ser	Pro	His	Leu	Ser	Leu	Pro	Met	Pro	Ser	Val	Ser	Arg	Ser	Thr
			165						170					175	
Ser	Arg	Ser	Ser	Ala	Asn	Trp	Glu	Arg	Leu	Arg	Gln	Gly	Thr	Leu	Arg
			180					185					190		
Arg	Asp	Leu	Arg	Gly	Ile	Ile	Asn	Arg	Gly	Leu	Glu	Asp	Gly	Glu	Ser
		195					200					205			
Trp	Glu	Tyr	Gln	Ile											
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<210> 916

<211> 1302

<212> DNA

<213> Homo sapiens

<400> 916

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atccgggtca	atgtcgtcta	tggtccttato	gtcatcatct	ccgccattgg	cctggactca	720
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<210> 917

<211> 2061

<212> DNA

<213> Homo sapiens

<400> 917

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340

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TTTTaccata	cagTcCaaat	Ctaaactgct	tCtactgatg	gTTttagCa	tTctgagata	360
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cagaatataa	taaaatgaga	taatCtagct	taaaaCtata	aCttCctCt	cagaactCcc	480
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<211> 957
<212> DNA
<213> Homo sapiens
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cctgtgctag	gtaacttgac	aatcatctac	attgtgcgga	ctgagcacag	cctgcatgag	180
gccatgtata	tattctcttg	catgctttca	ggcatgtgaca	tctcatctc	cacctcatcc	240
atgccccaaa	tgctggcatt	cttctggttc	aattccacta	ccatccagtt	tgtactttgt	300
ctgtacaga	tgtttgccat	ccactcctta	tctggcatgg	aatccacagt	gctgctggcc	360
atggccttttg	accgctatgt	ggccatctgt	cacccactgc	gccatgccac	agtacttacg	420
ttgcctctgt	tcacccaaa	tggtgtggct	gctgtggtgc	ggggggctgc	actgattggc	480
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<210> 919

341

<211> 954

<212> DNA

<213> Homo sapiens

<400> 919

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gctgtgctag gtaacttgac aatcatctac attgtgcgga ctgagcacag cctgcatgag 180
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```

<210> 920

<211> 318

<212> PRT

<213> Homo sapiens

<400> 920

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Met Met Val Asp Pro Asn Gly Asn Glu Ser Ser Ala Thr Tyr Phe Ile
                    5                      10                      15
Leu Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe Trp Leu Ala Phe
                20                25                30
Pro Leu Cys Ser Leu Tyr Leu Ile Ala Val Leu Gly Asn Leu Thr Ile
        35                40                45
Ile Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met Tyr Ile
        50                55                60
Phe Leu Cys Met Leu Ser Gly Ile Asp Ile Leu Ile Ser Thr Ser Ser
        65                70                75                80
Met Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln
                85                90                95
Phe Asp Ala Cys Leu Leu Gln Met Phe Ala Ile His Ser Leu Ser Gly
                100                105                110
Met Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
        115                120                125
Ile Cys His Pro Leu Arg His Ala Thr Val Leu Thr Leu Pro Arg Val
        130                135                140
Thr Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu Met Ala
145                150                155                160
Pro Leu Pro Val Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile
        165                170                175
Leu Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys
        180                185                190
Asp Asp Ile Arg Val Asn Val Val Tyr Gly Leu Ile Val Ile Ile Ser
        195                200                205
Ala Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu Leu Ile
        210                215                220
Leu Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys Ala Phe
225                230                235                240

```

342

Gly	Thr	Cys	Val	Ser	His	Val	Cys	Ala	Val	Phe	Ile	Phe	Tyr	Val	Pro
				245					250					255	
Phe	Ile	Gly	Leu	Ser	Met	Val	His	Arg	Phe	Ser	Lys	Arg	Arg	Asp	Ser
			260					265					270		
Pro	Leu	Pro	Val	Ile	Leu	Ala	Asn	Ile	Tyr	Leu	Leu	Val	Pro	Pro	Val
			275				280					285			
Leu	Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr	Lys	Glu	Ile	Arg	Gln	Arg
	290					295					300				
Ile	Leu	Arg	Leu	Phe	His	Val	Ala	Thr	His	Ala	Ser	Glu	Pro		
305					310					315					

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<210> 921
<211> 28
<212> PRT
<213> Homo sapiens
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```

<400> 921
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                    5              10              15
Leu Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe
          20              25

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```
<210> 922
<211> 9
<212> PRT
<213> Homo sapiens
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<400> 922
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5

```
<210> 923
<211> 21
<212> PRT
<213> Homo sapiens
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```
<400> 923
Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln Phe Asp
                    5              10              15
Ala Cys Leu Leu Gln
                20
```

```
<210> 924
<211> 20
<212> PRT
<213> Homo sapiens
```

```

<400> 924
Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg His Ala Thr Val Leu
                    5                      10                      15
Thr Leu Pro Arg
                20

```

```
<210> 925
<211> 37
<212> PRT
<213> Homo sapiens
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343

<400> 925

Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile Leu Ser His Ser
 5 10 15
 Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Asp Asp Ile Arg
 20 25 30
 Val Asn Val Val Tyr
 35

<210> 926

<211> 13

<212> PRT

<213> Homo sapiens

<400> 926

Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys
 5 10

<210> 927

<211> 10

<212> PRT

<213> Homo sapiens

<400> 927

Val His Arg Phe Ser Lys Arg Arg Asp Ser
 5 10

<210> 928

<211> 22

<212> PRT

<213> Homo sapiens

<400> 928

Lys Thr Lys Glu Ile Arg Gln Arg Ile Leu Arg Leu Phe His Val Ala
 5 10 15

Thr His Ala Ser Glu Pro

20

<210> 929

<211> 3245

<212> DNA

<213> Homo sapiens

<400> 929

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 aatttttact ctagccaagg aatagtggtat gacagcggat ccaccagctt tatgaaactg 780

344

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gtttgtcttt ttttgtatct tttttaaact gtaaagttca attgtgaaaa tgaatatcat 3180
gcaaataaat tatgcgattt ttttttcaaa gtaaaaaaaa aaaaaaaaaa aaaaagggcg 3240
gccgc 3245

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<210> 930

<211> 1479

<212> DNA

<213> Homo sapiens

<400> 930

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atggccttga actcagggtc accaccagct attggacctt actatgaaaa ccatggatag 60
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ccggctcagt actaccgctc ccccggtgcc cagtacgcc cgagggtcct gacgcaggct 180
tccaaccccg tcgtctgcac gcagcccaaa tccccatccg ggacagtgtg cacctcaaag 240
actaagaaaag cactgtgcat caccttgacc ctggggacct tcctcgtggg agctgcgctg 300
gccgtggcc tactctggaa gttcatgggc agcaagtgtc ccaactctgg gatagagtgc 360
gactcctcag gtacatgcat caaccctct aactgggtgt atggcgtgtc acactgcccc 420
ggcggggagg acgagaatcg gtgtgttcgc ctctacggat caaacttcat ccttcagggtg 480

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345

```

tactcatctc agaggaagtc ctggcaccct gtgtgccaag acgactggaa cgagaactac 540
gggcggggcgg cctgcagggg catgggctat aagaataatt tttactctag ccaaggaata 600
gtggatgaca gcggatccac cagctttatg aaactgaaca caagtgccgg caatgtcgat 660
atctataaaa aactgtacca cagtgatgcc tgttcttcaa aagcagtggg ttctttacgc 720
tgtatagcct gcgggggtcaa cttgaactca agccgccaga gcaggattgt gggcggcgag 780
agcgcgctcc cgggggcctg gccctggcag gtcagcctgc acgtccagaa cgtccacgtg 840
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agtggagggc ctctggtcac ttcgagaac aatatctggg ggctgatagg ggatacaagc 1380
tggggttctg gctgtgccaa agcttacaga ccaggagtgt acgggaatgt gatggtattc 1440
acggactgga tttatcgaca aatgagggca gacggctaa 1479

```

<210> 931

<211> 1476

<212> DNA

<213> Homo sapiens

<400> 931

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atggctttga actcagggtc accaccagct attggacctt actatgaaaa ccatggatac 60
caaccggaaa acccctatcc cgcacagccc actgtgggtc ccactgtcta cgaggtgcat 120
ccggctcagt actaccgctc ccccgctgcc cagtacgccc cgagggtcct gacgcaggct 180
tccaaccccg tcgtctgcac gcagcccaaa tccccatccg ggacagtgtg cacctcaaag 240
actaagaaag cactgtgcat caccttgacc ctggggacct tcctcgtggg agctgcgctg 300
gccgctggcc tactctggaa gttcatgggc agcaagtgtc ccaactctgg gatagagtgc 360
gactcctcag gtacctgcat caaccctctt aactggtgtg atggcgtgtc aactgcccc 420
ggcggggagg acgagaatcg gtgtgttcgc ctctacggat caaacttcat ccttcagggtg 480
tactcatctc agaggaagtc ctggcaccct gtgtgccaag acgactggaa cgagaactac 540
gggcggggcgg cctgcagggg catgggctat aagaataatt tttactctag ccaaggaata 600
gtggatgaca gcggatccac cagctttatg aaactgaaca caagtgccgg caatgtcgat 660
atctataaaa aactgtacca cagtgatgcc tgttcttcaa aagcagtggg ttctttacgc 720
tgtatagcct gcgggggtcaa cttgaactca agccgccaga gcaggattgt gggcggcgag 780
agcgcgctcc cgggggcctg gccctggcag gtcagcctgc acgtccagaa cgtccacgtg 840
tgccggaggct ccatcatcac ccccgagtgg atcgtgacag ccgcccactg cgtggaaaaa 900
cctcttaaca atccatggca ttggacggca tttgcgggga ttttgagaca atctttcatg 960
ttctatggag ccggatacca agtagaaaaa gtgatttctc atccaaatta tgactccaag 1020
accaagaaca atgacattgc gctgatgaag ctgcagaagc ctctgacttt caacgacctt 1080
gtgaaaccag tgtgtctgcc caaccaggc atgatgctgc agccagaaca gctctgctgg 1140
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aaggtgcttc tcattgagac acagagatgc aacagcagat atgtctatga caacctgatc 1260
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agtggagggc ctctggtcac ttcgagaac aatatctggg ggctgatagg ggatacaagc 1380
tggggttctg gctgtgccaa agcttacaga ccaggagtgt acgggaatgt gatggtattc 1440
acggactgga tttatcgaca aatgagggca gacgggc 1479

```

<210> 932

<211> 492

<212> PRT

<213> Homo sapiens

<400> 932

346

Met	Ala	Leu	Asn	Ser	Gly	Ser	Pro	Pro	Ala	Ile	Gly	Pro	Tyr	Tyr	Glu
				5					10					15	
Asn	His	Gly	Tyr	Gln	Pro	Glu	Asn	Pro	Tyr	Pro	Ala	Gln	Pro	Thr	Val
			20					25					30		
Val	Pro	Thr	Val	Tyr	Glu	Val	His	Pro	Ala	Gln	Tyr	Tyr	Pro	Ser	Pro
		35					40					45			
Val	Pro	Gln	Tyr	Ala	Pro	Arg	Val	Leu	Thr	Gln	Ala	Ser	Asn	Pro	Val
	50					55					60				
Val	Cys	Thr	Gln	Pro	Lys	Ser	Pro	Ser	Gly	Thr	Val	Cys	Thr	Ser	Lys
65					70					75					80
Thr	Lys	Lys	Ala	Leu	Cys	Ile	Thr	Leu	Thr	Leu	Gly	Thr	Phe	Leu	Val
			85					90						95	
Gly	Ala	Ala	Leu	Ala	Ala	Gly	Leu	Leu	Trp	Lys	Phe	Met	Gly	Ser	Lys
			100					105					110		
Cys	Ser	Asn	Ser	Gly	Ile	Glu	Cys	Asp	Ser	Ser	Gly	Thr	Cys	Ile	Asn
		115					120					125			
Pro	Ser	Asn	Trp	Cys	Asp	Gly	Val	Ser	His	Cys	Pro	Gly	Gly	Glu	Asp
	130				135						140				
Glu	Asn	Arg	Cys	Val	Arg	Leu	Tyr	Gly	Ser	Asn	Phe	Ile	Leu	Gln	Val
145					150					155					160
Tyr	Ser	Ser	Gln	Arg	Lys	Ser	Trp	His	Pro	Val	Cys	Gln	Asp	Asp	Trp
			165					170						175	
Asn	Glu	Asn	Tyr	Gly	Arg	Ala	Ala	Cys	Arg	Asp	Met	Gly	Tyr	Lys	Asn
			180					185					190		
Asn	Phe	Tyr	Ser	Ser	Gln	Gly	Ile	Val	Asp	Asp	Ser	Gly	Ser	Thr	Ser
	195					200						205			
Phe	Met	Lys	Leu	Asn	Thr	Ser	Ala	Gly	Asn	Val	Asp	Ile	Tyr	Lys	Lys
	210					215					220				
Leu	Tyr	His	Ser	Asp	Ala	Cys	Ser	Ser	Lys	Ala	Val	Val	Ser	Leu	Arg
225				230						235					240
Cys	Ile	Ala	Cys	Gly	Val	Asn	Leu	Asn	Ser	Ser	Arg	Gln	Ser	Arg	Ile
			245					250						255	
Val	Gly	Gly	Glu	Ser	Ala	Leu	Pro	Gly	Ala	Trp	Pro	Trp	Gln	Val	Ser
			260					265					270		
Leu	His	Val	Gln	Asn	Val	His	Val	Cys	Gly	Gly	Ser	Ile	Ile	Thr	Pro
	275					280						285			
Glu	Trp	Ile	Val	Thr	Ala	Ala	His	Cys	Val	Glu	Lys	Pro	Leu	Asn	Asn
	290					295					300				
Pro	Trp	His	Trp	Thr	Ala	Phe	Ala	Gly	Ile	Leu	Arg	Gln	Ser	Phe	Met
305				310						315					320
Phe	Tyr	Gly	Ala	Gly	Tyr	Gln	Val	Glu	Lys	Val	Ile	Ser	His	Pro	Asn
			325					330						335	
Tyr	Asp	Ser	Lys	Thr	Lys	Asn	Asn	Asp	Ile	Ala	Leu	Met	Lys	Leu	Gln
		340						345					350		
Lys	Pro	Leu	Thr	Phe	Asn	Asp	Leu	Val	Lys	Pro	Val	Cys	Leu	Pro	Asn
	355					360						365			
Pro	Gly	Met	Met	Leu	Gln	Pro	Glu	Gln	Leu	Cys	Trp	Ile	Ser	Gly	Trp
	370				375						380				
Gly	Ala	Thr	Glu	Glu	Lys	Gly	Lys	Thr	Ser	Glu	Val	Leu	Asn	Ala	Ala
385					390					395					400
Lys	Val	Leu	Leu	Ile	Glu	Thr	Gln	Arg	Cys	Asn	Ser	Arg	Tyr	Val	Tyr
			405					410						415	
Asp	Asn	Leu	Ile	Thr	Pro	Ala	Met	Ile	Cys	Ala	Gly	Phe	Leu	Gln	Gly
			420					425					430		
Asn	Val	Asp	Ser	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Val	Thr	Ser
	435						440					445			
Lys	Asn	Asn	Ile	Trp	Trp	Leu	Ile	Gly	Asp	Thr	Ser	Trp	Gly	Ser	Gly
	450					455						460			

347

Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe
 465 470 475 480
 Thr Asp Trp Ile Tyr Arg Gln Met Arg Ala Asp Gly
 485 490

<210> 933
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 933
 Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
 5 10 15
 Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
 20 25 30
 Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
 35 40 45
 Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
 50 55 60
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
 65 70 75 80
 Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
 85 90 95
 Gly Ala Ala Leu
 100

<210> 934
 <211> 393
 <212> PRT
 <213> Homo sapiens

<400> 934
 Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys Cys Ser Asn
 5 10 15
 Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn Pro Ser Asn
 20 25 30
 Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp Glu Asn Arg
 35 40 45
 Cys Val Arg Leu Tyr Gly Ser Asn Phe Ile Leu Gln Val Tyr Ser Ser
 50 55 60
 Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp Asn Glu Asn
 65 70 75 80
 Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn Asn Phe Tyr
 85 90 95
 Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser Phe Met Lys
 100 105 110
 Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys Leu Tyr His
 115 120 125
 Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg Cys Ile Ala
 130 135 140
 Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile Val Gly Gly
 145 150 155 160
 Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser Leu His Val
 165 170 175
 Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro Glu Trp Ile
 180 185 190

348

Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn Pro Trp His
 195 200 205
 Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met Phe Tyr Gly
 210 215 220
 Ala Gly Tyr Gln Val Glu Lys Val Ile Ser His Pro Asn Tyr Asp Ser
 225 230 235 240
 Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln Lys Pro Leu
 245 250 255
 Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn Pro Gly Met
 260 265 270
 Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp Gly Ala Thr
 275 280 285
 Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala Lys Val Leu
 290 295 300
 Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr Asp Asn Leu
 305 310 315 320
 Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly Asn Val Asp
 325 330 335
 Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser Lys Asn Asn
 340 345 350
 Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly Cys Ala Lys
 355 360 365
 Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe Thr Asp Trp
 370 375 380
 Ile Tyr Arg Gln Met Arg Ala Asp Gly
 385 390

<210> 935
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR Primer

<400> 935
 gtgctgtggg agtccccgcg gc 22

<210> 936
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR Primer

<400> 936
 cgtgaactcg agtcattaga ttaacctcgt ggacgc 36

<210> 937
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR Primer

349

<400> 937
gtgctgtggg agtccccgcg gc

22

<210> 938
<211> 1158
<212> DNA
<213> Homo sapiens

<400> 938
catatgcagc atcaccacca tcaccacgtg ctgtgggagt ccccgcgga gtgcagcagc 60
tggacacttt ggcagggcctt ttgctggctg ctgctgctgc ccgtcatgct actcatcgta 120
gcccgcccg tgaagctcgc tgctttccct acctccttaa gtgactgcc aacgcccacc 180
ggctggaatt gctctggtta tgatgacaga gaaaatgato tcttcctctg tgacaccaac 240
acctgtaaat ttgatgggga atgtttaaga attggagaca ctgtgacttg cgtctgtcag 300
ttcaagtgc acaatgacta tgtgcctgtg tgtggctcca atggggagag ctaccagaat 360
gagtgttacc tgcgacaggc tgcattgcaa cagcagagtg agatacttgt ggtgtcagaa 420
ggatcatgtg ccacagatgc aggatcagga tctggagatg gagtccatga aggctctgga 480
gaaactagtc aaaaggagac atccacctgt gatatttgcc agtttggtgc agaattgtgac 540
gaagatgccg aggatgtctg gtgtgtgtgt aatattgact gttctcaaac caacttcaat 600
cccctctgcg cttctgatgg gaaatcttat gataatgcat gccaaatcaa agaagcatcg 660
tgtcagaaac aggagaaaat tgaagtcatt tctttgggtc gatgtcaaga taacacaaact 720
acaactacta agtctgaaga tgggcattat gcaagaacag attatgcaga gaatgctaac 780
aaattagaag aaagtgccag agaaccaccac ataccttctg cggaacatta caatggcttc 840
tgcattgcac ggaagtgtga gcattctatc aatatgcagg agccatcttg caggtgtgat 900
gctgggtata ctggacaaca ctgtgaaaaa aaggactaca gtgttctata cgttggtccc 960
ggtcctgtac gatttcagta tgtcttaatc gcagctgtga ttggaacaat tcagattgct 1020
gtcatctgtg tgggtggctc ctgcatcaca aggaaatgcc ccagaagcaa cagaattcac 1080
agacagaagc aaaatacagg gcactacagt tcagacaata caacaagagc gtccacgagg 1140
ttaatctaata gactcgag 1158

<210> 939
<211> 1020
<212> DNA
<213> Homo sapiens

<400> 939
atgcagcatc accaccatca ccacgactgc caaacgcca cgggctggaa ttgctctggt 60
tatgatgaca gagaaaatga tctcttcctc tgtgacacca acacctgtaa atttgatggg 120
gaatgtttta gaattggaga cactgtgact tgcgtctgtc agttcaagt caacaatgac 180
tatgtgcctg tgtgtggctc caatggggag agctaccaga atgagtgtta cctgcgacag 240
gctgcatgca aacagcagag tgagatactt gtggtgtcag aaggatcatg tgccacagat 300
gcaggatcag gatctggaga tggagtccat gaaggctctg gagaaactag tcaaaaggag 360
acatccacct gtgatatttg ccagtttggt gcagaatgtg acgaagatgc cgaggatgtc 420
tgggtgtgtg gtaatatattg ctgttctcaa accaaacttca atccccctctg cgcttctgat 480
gggaaatctt atgataatgc atgcaaaatc aaagaagcat cgtgtcagaa acaggagaaa 540
attgaagtca tgtctttggg tcatgtcaa gataacacaa ctacaactac taagtctgaa 600
gatgggcatt atgcaagaac agattatgca gagaatgcta acaaataga agaaagtgcc 660
agagaacacc acataccttg tccggaacat tacaatggct tctgcatgca tgggaagtgt 720
gagcattcta tcaatatgca ggagcattct tgcaggtgtg atgctgggta tactggacaa 780
cactgtgaaa aaaaggacta cagtgttcta tacgtttgtc ccggtcctgt acgatttcag 840
tatgtcttaa tgcagctgt gattggaaca attcagattg ctgtcatctg tgtggtggct 900
ctctgcatca caaggaaatg cccagaagc aacagaattc acagacagaa gcaaaatata 960
gggcactaca gttcagacaa tacaacaaga gcgtccacga ggttaattcta atgactcgag 1020

<210> 940
<211> 336

350

<212> PRT

<213> Homo sapiens

<400> 940

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Met Gln His His His His His His Asp Cys Gln Thr Pro Thr Gly Trp
                    5                      10
Asn Cys Ser Gly Tyr Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp
                20                      25                      30
Thr Asn Thr Cys Lys Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr
                35                      40                      45
Val Thr Cys Val Cys Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val
                50                      55                      60
Cys Gly Ser Asn Gly Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln
                65                      70                      75                      80
Ala Ala Cys Lys Gln Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser
                85                      90                      95
Cys Ala Thr Asp Ala Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly
                100                      105                      110
Ser Gly Glu Thr Ser Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln
                115                      120                      125
Phe Gly Ala Glu Cys Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys
                130                      135                      140
Asn Ile Asp Cys Ser Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp
                145                      150                      155                      160
Gly Lys Ser Tyr Asp Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln
                165                      170                      175
Lys Gln Glu Lys Ile Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn
                180                      185                      190
Thr Thr Thr Thr Thr Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp
                195                      200                      205
Tyr Ala Glu Asn Ala Asn Lys Leu Glu Glu Ser Ala Arg Glu His His
                210                      215                      220
Ile Pro Cys Pro Glu His Tyr Asn Gly Phe Cys Met His Gly Lys Cys
                225                      230                      235                      240
Glu His Ser Ile Asn Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly
                245                      250                      255
Tyr Thr Gly Gln His Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val
                260                      265                      270
Val Pro Gly Pro Val Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile
                275                      280                      285
Gly Thr Ile Gln Ile Ala Val Ile Cys Val Val Val Leu Cys Ile Thr
                290                      295                      300
Arg Lys Cys Pro Arg Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr
                305                      310                      315                      320
Gly His Tyr Ser Ser Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
                325                      330                      335

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<210> 941

<211> 381

<212> PRT

<213> Homo sapiens

<400> 941

```

Met Gln His His His His His His Val Leu Trp Glu Ser Pro Arg Gln
                    5                      10                      15
Cys Ser Ser Trp Thr Leu Cys Glu Gly Phe Cys Trp Leu Leu Leu Leu
                20                      25                      30

```


351

```

Pro Val Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe
      35      40      45
Pro Thr Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser
      50      55      60
Gly Tyr Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr
      65      70      75      80
Cys Lys Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys
      85      90      95
Val Cys Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser
      100      105      110
Asn Gly Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys
      115      120      125
Lys Gln Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr
      130      135      140
Asp Ala Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu
      145      150      155      160
Thr Ser Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala
      165      170      175
Glu Cys Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp
      180      185      190
Cys Ser Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser
      195      200      205
Tyr Asp Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu
      210      215      220
Lys Ile Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr
      225      230      235      240
Thr Thr Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu
      245      250      255
Asn Ala Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys
      260      265      270
Pro Glu His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser
      275      280      285
Ile Asn Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly
      290      295      300
Gln His Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly
      305      310      315      320
Pro Val Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile
      325      330      335
Gln Ile Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys
      340      345      350
Pro Arg Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr
      355      360      365
Ser Ser Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
      370      375      380

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<210> 942
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 942
 ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg tgaac

45

<210> 943
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 943

Leu	Leu	Ala	Asn	Gly	Arg	Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn
				5					10					15